URS Operating Services, Inc.

1086837 - R8 SDMS

**Data Validation Report** 

### **REGION VIII** DATA VALIDATION REPORT ORGANICS - VOA, BNA, and PEST/PCB

Case No. / TDD No.	Site Name		Operable Unit
33461 / 0501-0004	Spanish Fork Salvage Yard		
RPM/OSC Name			
Luke Chavez			
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
Ceimic Corporation	68-W-03-018	H1BW2	

Review Assigned Date January 14, 2005 Data Validator Amy Ballow Report Reviewer Bill Fear Review Completion Date <u>January 28, 2005</u>

Sample ID	Station Location	Matrix	Analysis
H1BW2	SFSY-SW-04	Water	CLP - Volatile, Semivolatile, and Pesticide/PCB Analyses
H1BW3	SFSY-SW-05		CLP - Volatile Analyses
H1BW4	SFSY-SW-06		
H1BX5	SFSY-SW-01		CLP - Volatile, Semivolatile, and Pesticide/PCB Analyses
H1BX6	SFSY-SW-02	]	
H1BX7	SFSY-SW-03		

### DATA QUALITY STATEMENT

()	Data are ACCEPTABLE according to EPA Functional Guidelines with no qualifiers (flags) added by the reviewer.
()	Data are UNACCEPTABLE according to EPA Functional Guidelines.
(X)	Data are acceptable with QUALIFICATIONS noted in review.
Teleph	none/Communication Logs Enclosed? Yes NoX
TPO A	Attention Required? Yes X No If yes, list the items that require attention:
•	According to the case narrative, sample H1BW3 was received with a pH of 7. This sample was not considered to be properly preserved. The sample was analyzed eight days after the collection time and the seven day technical holding time for unpreserved water samples was not met. All aromatic volatile results for sample H1BW3 were qualified as estimated (J/UJ).
•	The water samples H1BX5, H1BX6, and H1BW7 were extracted outside of the seven day technical holding time. All semivolatile results for these samples were qualified as estimated (J/UJ).
•	The water samples H1BX5 and H1BX6 were extracted outside of the seven day holding time. All pesticide/PCB results for these samples were qualified as estimated (J/UJ).

#### ORGANIC DATA VALIDATION REPORT

#### **REVIEW NARRATIVE SUMMARY**

This data package was reviewed according to the EPA document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-20% of the results reported in <u>each</u> of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

Case No. 33461, SDG No. H1BW2 consisted of six water samples for volatile CLP organic analyses, four water samples for semivolatile CLP organic analyses and four water samples for pesticide/PCB CLP organic analyses.

The laboratory performed the required library search on all non-target sample components. TICs reported in both samples and blanks were rejected (R).

The following tables list data qualifiers added to the data. (Please see Data Qualifier Definitions, attached to the end of this report.)

Sample Number	Volatile Compound	Qualifier	Reason For Qualification	Review Section
H1BW3	All aromatic volatile compounds	J/UJ	Technical holding time exceeded	2
All samples	Dichlorodifluoromethane Acetone 2-Butanone	:	Continuing calibration %D > 25%	4
	Acetone Methylene chloride	U	Blank contamination	8



Sample Number	Semivolatile Compound	Qualifier	Reason for Qualification	Review Section
H1BX5, H1BX6, H1BX7	All semivolatile compounds	J/UJ	Extraction holding time exceeded	2
H1BW2, H1BX5, H1BX6, H1BX7 (All semivolatile samples)	Hexachlorocyclopentadiene 2-4-Dinitrophenol		Initial calibration %RSDs >30%	4
	Benzaldehyde 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol		Continuing calibration %D > 25%	

Sample Number	Pesticide Compound	Qualifier	Reason For Qualification	Review Section
H1BX5, H1BX6	All pesticide/PCB compounds	J/UJ	Extraction holding time exceeded	2



### Method Number OLM04.3 Revision **Organic Data Completeness Checklist** VOA Quality Control Summary Package P Surrogate Recovery Summary NA MS/MSD Summary P Method Blank Summary P GC/MS Tuning and Mass Calibration Sample Data Package P Holding Times (CLASS Sample Traffic Reports/UOS Chain-of-Custody) P Organic Analysis Data Sheets P Reconstructed Ion Chromatogram(s) (RIC) P Quantitation Reports Mass Spectral Data P Mass Spectral Library Search for TICs Standards Data Package NR Current List of Laboratory/Instrument Detection Limits P Initial Calibration Data for each instrument P Continuing Calibration Data for each instrument P Internal Standard Area Summary P VOA Standards RICs P VOA Standards Quantitation Reports Raw QC Package P BFB mass spectra and mass listings Reagent Blank Data P Organic Analysis Data Sheets P RIC or Total Ion Chromatogram P Quantitation Reports P Mass Spectral Data P Library Search for TICs Matrix Spike/Matrix Spike Duplicate Data NA Organic Analysis Data Sheets NA RIC NA Quantitation Reports NA Mass Spectral Data NA Library search for TICs KEY:

= Provided in original data package Р

R = Provided as resubmission

NP = Not provided in original data package or as resubmission

NR = Not required

NA = Not applicable to this data package or analysis



#### 1. DELIVERABLES

••	
	All deliverables were present as specified in the subcontract.
	VOA: Yes_X No
	Comments: None.
2.	HOLDING TIMES AND PRESERVATION CRITERIA
	All method holding times were met.
	VOA: Yes_X_ No
	Comments: The samples were analyzed within five days from sample receipt at the laboratory.
	All technical holding times and preservation criteria were met.
	VOA: Yes No_X_
	Comments: According to the case narrative, sample H1BW3 was received with a pH of 7 and was not considered to be properly preserved. Although the case narrative did

According to the case narrative, sample H1BW3 was received with a pH of 7 and was not considered to be properly preserved. Although the case narrative did indicate the technical holding time was met for this sample, sample H1BW3 was not analyzed within the seven day unpreserved water holding time. The following table lists the sample analyzed outside technical holding time, days outside holding time, and qualifiers added to the data:

Associated Sample	Days Analyzed Outside Technical Holding Time	Compounds	Qualifiers
H1BW3	1	All aromatic volatile compounds	J/UJ

All other water samples were preserved at a pH < 2 and were analyzed within 14 days from sample collection. The sample coolers were received within the  $4\pm2$  °C criteria. No other shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data were evaluated.

#### 3. BFB PERFORMANCE RESULTS

The bromofluorobenzene (BFB) performance results were within the specified control limits. All appropriate BFB results were included.

VOA: Yes\_X\_ No\_\_\_

Comments: BFB instrument performance checks were run for each 12 hours of analysis. Ion

abundance criteria were met and were verified from raw data.

#### 4. INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS

Initial instrument calibrations were performed according to method requirements and met the specified control limits listed in the Functional Guidelines.

VOA: Yes X No\_\_\_

Comments:

Initial calibration standards containing both volatile target compounds and surrogate compounds were analyzed at the required frequency. The percent relative standard deviations (%RSDs) for the target compounds were less than or equal to 30%. The average relative response factors (RRFs) for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

Continuing instrument calibrations were performed according to method requirements and met specified control limits listed in the Functional Guidelines.

VOA: Yes\_\_\_ No\_X

Comments:

Continuing calibration standards containing both target compounds and surrogate compounds were analyzed at the beginning of each 12-hour analysis period. The average RRFs for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the percent differences (%Ds) for compounds that were greater than 25% in the continuing calibrations and the qualifiers added to the data:

Compound	%D	Associated Samples	Qualifiers
Dichlorodifluoromethane Acetone 2-Butanone	54.0 30.9 26.2	All samples	J/UJ

#### 5. SURROGATE COMPOUND RECOVERY

Surrogate compound recovery analysis was performed according to method requirements and results met specified control limits.

VOA: Yes\_X No\_\_\_

Comments:

Surrogate compounds were added to all samples and blanks. The surrogate percent recoveries (%Rs) were all within the QC limits. Summary forms and raw data were evaluated.



#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

VOA: Yes\_\_\_ No\_\_ NA\_X

Comments: MS/MSD analyses were not performed for the volatile samples in this SDG. No

action is taken based solely on MS/MSD data.

#### 7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

VOA: Yes X No\_\_\_

Comments: Internal standard area counts did not vary by more than a factor of two from the

associated 12-hour calibration standard. The internal standard retention times did not vary more than  $\pm$  30 seconds from the retention time of the associated 12-hour

calibration standards. Summary forms and raw data were evaluated.

#### 8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified limits.

VOA: Yes\_\_\_ No\_X\_

Comments: Method blank analyses were performed after the calibration standards and once for every 12-hour time period beginning with a BFB analysis. A storage blank (VHBLK01) was also analyzed. Summary forms and raw data were evaluated.

Contamination was detected in the volatile blanks as summarized in the following table. Quantitation limits in the associated samples were raised in accordance with the rules set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.



#### **Blank Target Compounds**

Blank ID	Contaminant	Concentration Found in Blank (ug/L)	Associated Samples	Concentration Found in Sample (ug/L)	Qualifier/ Adjustment
VBLKPZ	Acetone	6	H1BW2 H1BW3 H1BW4 H1BX5 H1BX6 H1BW7	33 18 25 27 22 27	บ บ บ บ บ
	Methylene chloride	3	H1BW2 H1BW3 H1BW4 H1BX5 H1BX6 H1BX7	6 J 6 J 6 J 6 J 5 J 5 J	10 U 10 U 10 U 10 U 10 U 10 U

Acetone and methylene chloride were also reported in storage blank, VHBLK01; however, no additional qualification was required.

A detected result for 1,2-dibromo-3-chloropropane was reported in the method blank at 2 ug/L. No action was necessary, as this compound was not detected in the samples. Tentatively identified compounds (TICs) were not reported in the method or storage blanks.

#### 9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

Comments:

Sample relative retention times (RRTs) were within  $\pm$  0.06 RRT units of the standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions agreed within  $\pm$  20% between standard and sample spectra.

TICs were qualitatively assessed by a mass spectral library search. Only one TIC was reported for sample H1BX7 and this TIC was identified as an unknown compound and a TICs CAS number was not assigned by the laboratory.

#### 10. Additional Comments or Problems/Resolutions Not Addressed Above

VOA: Yes\_\_\_ No\_X

Comments: None.

**Data Validation Report** 

Method Number <u>OLM04.3</u> Revision **Organic Data Completeness Checklist BNA** Quality Control Summary Package P Surrogate Recovery Summary NA MS/MSD Summary P Method Blank Summary P GC/MS Tuning and Mass Calibration Sample Data Package P Holding Times (CLASS Sample Traffic Reports/UOS Chain-of-Custody) P Organic Analysis Data Sheets P Reconstructed Ion Chromatogram(s) (RIC) P Quantitation Reports Mass Spectral Data P Mass Spectral Library Search for TICs Standards Data Package NR Current List of Laboratory/Instrument Detection Limits P Initial Calibration Data for each instrument P Continuing Calibration Data for each instrument P Internal Standard Area Summary P BNA Standards RICs P BNA Standards Quantitation Reports Raw QC Package P DFTPP mass spectra and mass listings Reagent Blank Data P Organic Analysis Data Sheets P\_ RIC or Total Ion Chromatogram P Quantitation Reports P Mass Spectral Data P Library Search for TICs Matrix Spike/Matrix Spike Duplicate Data NA Organic Analysis Data Sheets NA\_ RIC NA\_ Quantitation Reports NA Mass Spectral Data NA Library search for TICs KEY: P = Provided in original data package R = Provided as resubmission NP = Not provided in original data package or as resubmission NR = Not required NA = Not applicable to this data package or analysis



#### 1. **DELIVERABLES**

All deliverables were present as specified in the subcontra
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BNA: Yes X No\_\_\_

Comments: None.

#### 2. HOLDING TIMES AND PRESERVATION CRITERIA

All method holding times were met.

BNA: Yes X No\_\_\_

Comments: The samples in this SDG were extracted within five days from sample receipt at the

laboratory.

All holding times and preservation criteria were met.

BNA: Yes\_\_\_ No\_X\_

Comments: The water sample extracts were analyzed within 40 days of extraction. The sample

coolers were received within the temperature criteria of  $4 \pm 2$  °C. No shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data

were evaluated.

Samples H1BX5, H1BX6, and H1BX7 were extracted outside of the seven day water holding time. The following table lists the samples extracted outside technical holding times, days outside holding time, and qualifiers added to the data:

Associated Samples	Days Extracted Outside Technical Holding Time	Compounds	Qualifiers
H1BX5	3	All semivolatile compounds	1/U1
H1BX6	2		
H1BX7	1		

#### 3. DFTPP PERFORMANCE RESULTS

The decafluorotriphenylphosphine (DFTPP) performance results were within the specified control limits. All appropriate DFTPP results were included.

BNA: Yes\_X No\_\_\_



Comments:

Instrument performance check solutions were analyzed at the beginning of each 12-hour period of sample analysis. Ion abundance criteria were met and were verified

from raw data.

#### 4. INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS

Initial instrument calibrations were performed according to method requirements and met the specified control limits listed in the Functional Guidelines.

BNA: Yes\_\_\_ No\_X\_

Comments:

Initial calibration standards containing both target compounds and surrogate compounds were analyzed at the required frequency. The average relative response factors (RRFs) for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the percent relative standard deviations (%RSDs) that exceeded 30% and qualifiers added to the data:

Compound	%RSD	Associated Samples	Qualifiers
Hexachlorocyclopentadiene 2-4-Dinitrophenol	30.3 35.6	H1BW2, H1BX5, H1BX6, H1BX7 (All semivolatile samples)	J/UJ

Continuing instrument calibrations were performed according to method requirements and met specified control limits listed in the Functional Guidelines.

BNA: Yes\_\_\_ No\_X\_

Comments:

Continuing calibration standards containing both target compounds and surrogate compounds were analyzed at the beginning of each 12-hour analysis period. The RRFs for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the percent differences (%Ds) that exceeded 25% and the qualifiers added to the data:

Compound	%D	Associated Samples	Qualifiers
Benzaldehyde 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	27.2 31.0 30.1	H1BW2, H1BX5, H1BX6, H1BX7 (All semivolatile samples)	J/UJ



#### 5. SURROGATE COMPOUND RECOVERY

Surrogate compound recovery analysis was performed according to method requirements and results met specified control limits.

BNA: Yes X No\_\_\_

Comments: Surrogate compounds were added to all samples and blanks. All recoveries were

within QC limits. Summary forms and raw data were evaluated.

#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

BNA: Yes\_\_\_ No\_\_ NA\_X

Comments: MS/MSD analyses were not performed for the semivolatile samples in this SDG.

No action is taken based solely on MS/MSD data.

#### 7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

BNA: Yes X No\_\_\_

Comments: The internal standard retention times did not vary more than  $\pm 30$  seconds from the

retention time of the associated 12-hour calibration standards. Internal standard area counts did not vary by more than a factor of two from the associated 12-hour calibration standard for the sample analyses. Summary forms and raw data were

evaluated.

#### 8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified control limits.

BNA: Yes X No\_\_\_

Comments: Method blanks were reported per matrix, per concentration level, and for each

extraction batch. Target compounds were not detected in the semivolatile blank.

Summary forms and raw data were evaluated.

One tentatively identified compound (TIC) was reported in method blank at a retention time of 7.43 minutes. This TIC was reported in all the semivolatile samples and the TIC was qualified as rejected (R).

#### 9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

BNA: Yes X No\_\_\_

Comments: Sample relative retention times (RRTs) were within ± 0.06 RRT units of the

standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions

agreed within  $\pm$  20% between standard and sample spectra.

#### 10. Additional Comments or Problems/Resolutions Not Addressed Above

BNA: Yes\_\_\_ No\_X\_

Comments: None.

**Data Validation Report** 



### Method Number OLM04.3

Revision \_\_\_\_\_

# Organic Data Completeness Checklist PEST/PCB

#### Quality Control Summary Package

- P Surrogate Recovery Summary (Form II)
- NA MS/MSD Summary (Form III)
- P Method Blank Summary (Form IV)

#### Sample Data Package

- P Holding Times (CLASS Sample Traffic Reports/UOS Chain-of-Custody)
- P Organic Analysis Data Sheets (Form I)
- P GC/EC Chromatogram(s)
- Pesticide Identification Summary for Single Component Analytes (Form X-1) for positive results only
- NA Pesticide Identification Summary for Multicomponent Analytes (Form X-2) for positive results only

#### Standards Data Package

- NR Current List of Laboratory/Instrument Detection Limits
- P Pesticide Initial Calibration of Single Component Analytes (Form VI-1,2)
- P Pesticide Initial Calibration of Multicomponent Analytes (Form VI-3)
- P Pesticide Analyte Resolution Summary (Form VI-4)
- P Pesticide Calibration Verification Summary (Form VII-1,2)
- P Pesticide Analytical Sequence (Form VIII)
- P Pesticide Florisil Cartridge Check (Form IX-1)
- NA Pesticide GPC Calibration (Form IX-2)
- P Pesticide/Aroclor Standard Chromatograms and Data System Printouts

#### Reagent Blank Data

- P Organic Analysis Data Sheets (Form I)
- P GC/EC Chromatograms and Data System Printouts

#### Matrix Spike/Matrix Spike Duplicate Data

- NA Organic Analysis Data Sheets
- NA GC/EC Chromatograms and Data System Printouts

#### KEY:

P = Provided in original data package

R = Provided as resubmission

NP = Not provided in original data package or as resubmission

NR = Not required

NA = Not applicable to this data package or analysis

URS Operating Services, Inc.

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1.	DUL	/1 Y L 1\	$\Delta DL$	טיבו

l.	DELIVERABI	LES				
	All deliverables	s were j	present as specif	ied in the sub	contract.	
	PEST/AROCL	OR:	Yes_X_	No		
	Comments:	None.				
2.	HOLDING TI	MES A	AND PRESERV	ATION CR	ITERIA	
	All method hol	ding tir	nes were met.			
	PEST/AROCL	OR:	Yes_X_	No		
	Comments:	_	esticide/PCB sa e receipt at the l	-	s SDG were extracted within	five days from
	PEST/AROCL	OR:	Yes	No_X_		
	Comments:	coole proble evalu Samp time.	rs were received ems were noted ated. les H1BX5 and I The following	I within the Chain-of-of-of-of-of-of-of-of-of-of-of-of-of-	lyzed within 40 days of extracti 4 ± 2 °C criteria. No shippin custody, summary forms, and extracted outside of the seven day e samples extracted outside te and qualifiers added to the data:	ng or receiving raw data were by water holding chnical holding
As	sociated Samples		Days Extracted Technical Holdi		Compounds	Qualifiers
	H1BX5 H1BX6		2		All pesticide/PCB compounds	J/UJ
3.	The multi-com PEST/AROCI Comments:	nponent LOR: None	target compound Yes_X_	d analyses we	ND CONTINUING STANDA	od requirements:
	Initial instrument calibrations were performed according to requirements and met the specified control limits listed in the functional guidelines.					

PEST/AROCLOR:

Yes\_\_\_

No\_X

**Data Validation Report** 

Comments:

Percent relative standard deviations (%RSDs) for the individual pesticides in the initial calibrations were all within the 20% criteria, with one exception. The %RSD for methoxychlor on the first column was outside criteria at 20.4%. No action was taken because up to two %RSDs per column can exceed 20% if the %RSD is less than 30%. Summary forms and raw data were evaluated.

Continuing instrument calibrations were performed according to requirements and met specified control limits listed in the functional guidelines.

PEST/AROCLOR:

Yes\_X\_

No\_\_\_

Comments:

Continuing calibration standards were analyzed at the required frequency. The percent differences (%Ds) between the calculated amounts and the true amounts were less than or equal to 25% for the individual standards that bracketed the samples. Summary forms and raw data were evaluated.

#### 4. SURROGATE COMPOUND RECOVERY

Surrogate compound recovery analysis was performed according to method requirements and results met specified control limits.

PEST/AROCLOR:

Yes X

No\_\_\_

Comments:

Surrogate compounds were added to all samples and blanks. The surrogate percent recoveries (%Rs) were all within the QC limits. Summary forms and raw data were

evaluated.

#### 5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

PEST/AROCLOR:

Yes

NA X

Comments:

MS/MSD analyses were not performed for the pesticide/PCB samples in this SDG.

No action is taken based solely on MS/MSD data.

No

#### 6. PESTICIDE / AROCLOR INSTRUMENT PERFORMANCE

The pesticide resolution check mixture analysis was performed according to method requirements and results met recommended recovery limits.

PEST/AROCLOR:

Yes X

No\_\_\_

Comments:

All resolution criteria were met.

requirements and results met recommended recovery limits. PEST/AROCLOR: Yes X No\_\_\_ Comments: PEM analyses were analyzed at the required frequency. Summary forms and raw data were evaluated. The percent differences (%Ds) between the calculated amounts and the true amounts were less than or equal to 25%. The breakdowns of 4,4'-DDT and Endrin were less than 20% and the combined breakdown was less than 30%. PEST/AROCLOR: Yes X No Comments: All breakdown criteria were met. The decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCMX) retention time shifts were within the specified control limits. Yes X PEST/AROCLOR: No Comments: All retention time shift criteria for this data package were met, for all undiluted analyses.

The pesticide performance evaluation mixture (PEM) analysis was performed according to method

#### 7. PESTICIDE CLEANUP CHECKS

The florisil cartridge lot check analysis was performed according to requirements and all spike compounds were within the specified quality control limits.

PEST/AROCLOR: Yes X No\_\_\_\_

Comments: All recoveries were within 80-120%.

The gel permeation chromatography (GPC) check was performed according to requirements and all spike compounds were within the specified quality control limits.

PEST/AROCLOR: NA X Yes No

Comments: None.

### URS Operating Services, Inc.

### 8. LABORATORY BLANK ANALYSIS RESULTS

	The laboratory control limits.	blank analysis was performed according to method requirements and met specified
	PEST/AROCL	OR: Yes_X_ No
	Comments:	Method blanks were reported per matrix, per concentration level, and for each extraction batch. Additionally, instrument blanks were analyzed. Contamination was not detected in the method blank or instrument blanks. Summary forms and raw data were evaluated.
9.	SAMPLE RE	SULTS
	The sample res	sults were reviewed and all compound identifications were acceptable and met method
	PEST/AROCI	LOR: Yes_X_ No
	Comments:	No problems with the identification of the sample results were found. All retention times were met for the detected results.
10.	Additional Co	omments or Problems/Resolutions Not Addressed Above
	PEST/AROCI	LOR: Yes No_X_
	Comments:	None.

#### ORGANIC DATA QUALITY ASSURANCE REVIEW

#### Region VIII

#### **DATA QUALIFIER DEFINITIONS**

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality.

#### GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R Reported value is "rejected." Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- The associated numerical value is an estimated quantity because the Quality Control criteria were not met.
- U J The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound was not detected.
- N J Estimated value of a tentatively identified compound. (Identified with a CAS number.)
  ORGANICS analysis only.
- U The material was analyzed for, but was not detected above the level of the associated value.

  The associated value is either the sample quantitation limit or the sample detection limit.

EPA SAMPLE NO.

H1BW2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-01...

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC779

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

75-71-8	Dichlorodifluoromethane	10	ַ ע	UJ
74-87-3	Chloromethane	10	U	-1
75-01-4	Vinyl Chloride	10	U	-
74-83-9	Bromomethane	10	Ū	- I
75-00-3	Chloroethane	10	Ü	<u> </u>
75-69-4	Trichlorofluoromethane	10	Ü	<sup>-</sup>
75-35-4	1,1-Dichloroethene	10	Ü	-∤
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū	-
67-64-1	Acetone	33	В	_ u3
75-15-0	Carbon Disulfide	10	Ū.	-
79-20-9	Methyl Acetate	10	Ü	-
75-09-2	Methylene Chloride	6	JB	- 10U
156-60-5	trans-1,2-Dichloroethene	10	Ū	-
1634-04-4	Methyl tert-Butyl Ether	10	Ū	-1
75-34-3	1,1-Dichloroethane	10	Ū	-
156-59-2	cis-1,2-Dichloroethene	10	Ū	<u> </u>
78-93-3	2-Butanone	10	Ū	- u3
67-66-3	Chloroform	10	Ū	_}
71-55-6	1,1,1-Trichloroethane	10	Ū	-}
110-82-7	Cyclohexane	10	U	-1
56-23-5	Carbon Tetrachloride	10	Ū	- {
71-43-2	Benzene	10	Ū	- [
107-06-2	1,2-Dichloroethane	10	Ū	_

01-15-05

FORM I VOA-1

EPA SAMPLE NO.

H1BW2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC779

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	Ü
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	. 10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ü
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	Ū

01-15-05

# 1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE NO.
, ,	HIRW2

Lab Name: CEIMIC CORP	Contract: 68-W-03-018	
Lab Code: CEIMIC Case No.: 33461	SAS No.: SDG No.: H1BW2	į
Matrix: (soil/water) WATER	Lab Sample ID: 041206-01	
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID: PC779	
Level: (low/med) LOW	Date Received: 10/30/04	
% Moisture: not dec.	Date Analyzed: 11/02/04	
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract Volume: (uL)	Soil Aliquot Volume:	(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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16.		<del> </del>	<u> </u>	-
17.		<del> </del>	<del> </del>	<del> </del>
18.	<del></del>	<del> </del>	<del> </del>	<del></del>
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FORM I VOA-TIC

EPA SAMPLE NO.

H1BW3

(

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-02

Sample wt/vol:

5.000 (g/mL) ML

Lab File ID: PC780

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

<u>  43</u>	Ŭ	10	Dichlorodifluoromethane	75-71-8
`	U	10	Chloromethane	74-87-3
	Ŭ	10	Vinyl Chloride	75-01-4
1	Ū	10	Bromomethane	74-83-9
`	U	10	Chloroethane	75-00-3
	Ū	10	Trichlorofluoromethane	75-69-4
1	Ū	10	1,1-Dichloroethene	75-35-4
1	Ü	10	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1
⁻ u3	В	18	Acetone	67-64-1
1	Ū	10	Carbon Disulfide	75-15-0
-	Ū	10	Methyl Acetate	79-20-9
- ho	JB	6	Methylene Chloride	75-09-2
-	Ū	10	trans-1,2-Dichloroethene	156-60-5
.	Ū,	10	Methyl tert-Butyl Ether	1634-04-4
-	Ū	10	1,1-Dichloroethane	75-34-3
-	Ū	10	cis-1,2-Dichloroethene	156-59-2
- u	Ū	10	2-Butanone	78-93-3
- i	U	10	Chloroform	67-66-3
-	U	10	1,1,1-Trichloroethane	71-55-6
-	U	10	Cyclohexane	110-82-7
-	Ū	10	Carbon Tetrachloride	56-23-5
-  U;	U	10	Benzene	71-43-2
~  `	Ū	10	1,2-Dichloroethane	107-06-2

AB 01-1505

FORM I VOA-1

EPA SAMPLE NO.

H1BW3	,

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC780

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

79-01-6	Trichloroethene	10	Ū	1
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	Ŭ	
75-27-4	Bromodichloromethane	10	Ŭ	1
10061-01-5	cis-1,3-Dichloropropene	10	ט	
108-10-1	4-Methyl-2-Pentanone	10	Ū	1 _
108-88-3	Toluene	10	U	'u3
10061-02-6	trans-1,3-Dichloropropene	10	Ŭ	]
79-00-5	1,1,2-Trichloroethane	10	Ü	1
127-18-4	Tetrachloroethene	10	Ū	
591-78-6	2-Hexanone	10	U	
124-48-1	Dibromochloromethane	10	Ü	`\
106-93-4	1,2-Dibromoethane	10	Ü	1
108-90-7	Chlorobenzene	10	U .	us
100-41-4	Ethylbenzene	10	Ū	11
1330-20-7	Xylene (Total)	10	Ū	11
100-42-5	Styrene	10	Ū	. 7
75-25-2	Bromoform	10	U	
98-82-8	Isopropylbenzene	10	Ü	45
79-34-5	1,1,2,2-Tetrachloroethane	10	U	-
541-73-1	1,3-Dichlorobenzene	10	U	Jus
106-46-7	1,4-Dichlorobenzene	10	U	11
95-50-1	1,2-Dichlorobenzene	10	Ū	14
96-12-8	1,2-Dibromo-3-chloropropane	10	Ŭ	
120-82-1	1,2,4-Trichlorobenzene	10	Ū	us

FORM I VOA-2

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC780

Level: (low/med)

Date Received: 10/30/04

% Moisture: not dec. \_\_\_\_

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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11.				<b> </b>
12.		<del>                                     </del>		<del> </del>
14.		<del> </del>		<del> </del>
15.		<del></del>		<del> </del>
16.			<del> </del>	<del> </del>
17.		<del></del>		<del> </del>
18.		<del></del>	<del></del>	<del> </del>
19.		<del></del>		<del> </del>
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21.			<del>                                     </del>	<del>   </del>
22.		<del>                                     </del>		<del> </del>
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25.				† · · · · · ·
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FORM I VOA-TIC

SAS No.:

EPA SAMPLE NO.

Contract: 68-W-03-018

Lab Name: CEIMIC CORP

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-03

Lab Code: CEIMIC

Sample wt/vol: 5.000 (g/mL) ML

Case No.: 33461

Lab File ID: PC781

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO. COMPOUND

		<del></del>		
	Dichlorodifluoromethane			'  uJ
74-87-3	Chloromethane	10	U	- 1
75-01-4	Vinyl Chloride	10	Ū	-
74-83-9	Bromomethane	10	Ū	-
75-00-3	Chloroethane	10	Ū	-
75-69-4	Trichlorofluoromethane	10	Ū	-
75-35-4	1,1-Dichloroethene	10	Ū	-
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū	-
67-64-1	Acetone	25	В	-luJ
75-15-0	Carbon Disulfide	10	Ū	-  -
79-20-9	Methyl Acetate	10	Ū	-
75-09-2	Methylene Chloride	6	JB	-   bu
156-60-5	trans-1,2-Dichloroethene	10	Ū	-
1634-04-4	Methyl tert-Butyl Ether	10	Ū,	- [
75-34-3	1,1-Dichloroethane	10	Ū	-
156-59-2	cis-1,2-Dichloroethene	10	Ū	-1
78-93-3	2-Butanone	10	Ú	uj
67-66-3	Chloroform	10	Ū	-  -
71-55-6	1,1,1-Trichloroethane	10	Ū	- <u> </u>
110-82-7	Cyclohexane	10	Ū	-
56-23-5	Carbon Tetrachloride	10	Ū	-
71-43-2	Benzene	10	Ū	-
107-06-2	1,2-Dichloroethane	10	Ū	-
	74-83-9 75-00-3 75-69-4 75-35-4 76-13-1 67-64-1 75-15-0 79-20-9 75-09-2 156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6 110-82-7 56-23-5 71-43-2	74-87-3 Chloromethane 75-01-4 Vinyl Chloride 74-83-9 Bromomethane 75-00-3 Chloroethane 75-69-4 Trichlorofluoromethane 75-35-4 1,1-Dichloroethene 76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane 67-64-1 Acetone 75-15-0 Carbon Disulfide 79-20-9 Methyl Acetate 75-09-2 Methylene Chloride 156-60-5 trans-1,2-Dichloroethene 1634-04-4 Methyl tert-Butyl Ether 75-34-3 1,1-Dichloroethane 156-59-2 cis-1,2-Dichloroethene 78-93-3 2-Butanone 67-66-3 Chloroform 71-55-6 1,1,1-Trichloroethane 110-82-7 Cyclohexane 56-23-5 Carbon Tetrachloride 71-43-2 Benzene	74-87-3       Chloromethane       10         75-01-4       Vinyl Chloride       10         74-83-9       Bromomethane       10         75-00-3       Chloroethane       10         75-69-4       Trichlorofluoromethane       10         75-35-4       1,1-Dichloroethene       10         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       10         67-64-1       Acetone       25         75-15-0       Carbon Disulfide       10         79-20-9       Methyl Acetate       10         75-09-2       Methylene Chloride       6         156-60-5       trans-1,2-Dichloroethene       10         1634-04-4       Methyl tert-Butyl Ether       10         75-34-3       1,1-Dichloroethane       10         156-59-2       cis-1,2-Dichloroethene       10         78-93-3       2-Butanone       10         67-66-3       Chloroform       10         71-55-6       1,1,1-Trichloroethane       10         10-82-7       Cyclohexane       10         56-23-5       Carbon Tetrachloride       10         71-43-2       Benzene       10	74-87-3         Chloromethane         10         U           75-01-4         Vinyl Chloride         10         U           74-83-9         Bromomethane         10         U           75-00-3         Chloroethane         10         U           75-69-4         Trichlorofluoromethane         10         U           75-35-4         1,1-Dichloroethene         10         U           76-13-1         1,1,2-Trichloro-1,2,2-trifluoroethane         10         U           67-64-1         Acetone         25         B           75-15-0         Carbon Disulfide         10         U           79-20-9         Methyl Acetate         10         U           75-09-2         Methylene Chloride         6         JB           156-60-5         trans-1,2-Dichloroethene         10         U           1634-04-4         Methyl tert-Butyl Ether         10         U           75-34-3         1,1-Dichloroethane         10         U           78-93-3         2-Butanone         10         U           67-66-3         Chloroform         10         U           71-55-6         1,1,1-Trichloroethane         10         U           71-43-2

FORM I VOA-1

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC781

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO. COMPOUND

79-01-6	Trichloroethene		Ŭ
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	Ü
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	Ū
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	U ,
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	<u> </u>
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	Ū

FORM I VOA-2

#### 1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H1BW4	ł

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.: ;

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-03

Sample wt/vol: 5.000 (q/mL) ML

Lab File ID: PC781

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: not dec. \_\_\_\_

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:\_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	÷Q
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24. 25.		_		<u>├</u>
26.		<del></del>		<b> </b>
27.			<del> </del>	<del>[</del>
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29.				<u> </u>
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FORM I VOA-TIC

EPA SAMPLE NO.

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H1BX5	X	۲.
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-04

Sample wt/vol:

5.000 (g/mL) ML

Lab File ID: PC782

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:\_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

75-71-8	Dichlorodifluoromethane	- 10	Ū	eu
74-87-3	Chloromethane	10	U ,	- ]
75-01-4	Vinyl Chloride	10	U	1
74-83-9	Bromomethane	10	Ü	
75-00-3	Chloroethane	10	Ū	-
75-69-4	Trichlorofluoromethane	10	Ū	-
75-35-4	1,1-Dichloroethene	10	Ŭ	-
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū	-
67-64-1	Acetone	27	В	-  u3
75-15-0	Carbon Disulfide	10	Ū	-
79-20-9	Methyl Acetate	10	Ū	-
75-09-2	Methylene Chloride	6	JB	bu
156-60-5	trans-1,2-Dichloroethene	10	Ŭ	-
1634-04-4	Methyl tert-Butyl Ether	10	U	- [
75-34-3	1,1-Dichloroethane	10	Ū	-
156-59-2	cis-1,2-Dichloroethene	10	Ū	- [
78-93-3	2-Butanone	2	J	-  J
67-66-3	Chloroform	10:	U	-  -
71-55-6	1,1,1-Trichloroethane	10	Ū	-
110-82-7	Cyclohexane	10	Ū	-
56-23-5	Carbon Tetrachloride	10	Ū	-
71-43-2	Benzene	10	U	-
107-06-2	1,2-Dichloroethane	10	U	-

EPA SAMPLE NO.

H1BX5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC782

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_(uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

79-01-6	Trichloroethene	- 10 U
108-87-2	Methylcyclohexane	10 U
78-87-5	1,2-Dichloropropane	10 U
75-27-4	Bromodichloromethane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
108-88-3	Toluene	10 U
10061-02-6	trans-1,3-Dichloropropene	10 U
79-00-5	1,1,2-Trichloroethane	10 U
127-18-4	Tetrachloroethene	10 U
591-78-6	2-Hexanone	10 U
124-48-1	Dibromochloromethane	10 U
106-93-4	1,2-Dibromoethane	10 U
108-90-7	Chlorobenzene	10 U
100-41-4	Ethylbenzene	10 U
1330-20-7	Xylene (Total)	10 Ü
100-42-5	Styrene	10 U
75-25-2	Bromoform	10 U
98-82-8	Isopropylbenzene	10 U
79-34-5	1,1,2,2-Tetrachloroethane	10 U
541-73-1	1,3-Dichlorobenzene	10 U -
106-46-7	1,4-Dichlorobenzene	10 U
95-50-1	1,2-Dichlorobenzene	10 U
96-12-8	1,2-Dibromo-3-chloropropane	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U

FORM I VOA-2

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

		_
]	H1BX5	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC782

Level: (low/med) TOM Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624

ID: 0.25

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Number TICs found: 0

. CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
		======	========	=====
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$\frac{2}{3}$ .				<del> </del>
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28.		<del> </del>	<del></del>	<del>                                     </del>
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30.	<u> </u>	<u> </u>	_ <b>_</b>	

FORM I VOA-TIC

EPA SAMPLE NO.

H1BX6 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-05

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC783

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

CAS NO.

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

75-71-8 Dichlorodifluoromethane ui 74-87-3 Chloromethane 75-01-4 Vinyl Chloric 74-83-9 Bromomethane Chloromethane Vinyl Chloride 10 Ū 10 IJ 75-00-3 Chloroethane 10 Ū 75-69-4 Trichlorofluoromethane 10 Ū 1,1-Dichloroethene 75-35-4 10 1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 10 Ū U.J 67-64-1 Acetone 22 Carbon Disulfide 75-15-0 IJ 10 79-20-9 Methyl Acetate 10 Ũ 75-09-2 Methylene Chloride 101 156-60-5 trans-1,2-Dichloroethene 10 Methyl tert-Butyl Ether 1634-04-4 10 75-34-3 10 1,1-Dichloroethane cis-1,2-Dichloroethene 156-59-2 10 IJ 78-93-3 10 u. 2-Butanone 67-66-3 Chloroform 10 Ū 1,1,1-Trichloroethane 10 Ū 71-55-6 Cyclohexane 110-82-7 10 Carbon Tetrachloride 56-23-5 71-43-2 Benzene 1,2-Dichloroethane 107-06-2

FORM I VOA-1

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-05

Sample wt/vol:

5.000 (g/mL) ML

Lab File ID: PC783

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

1	man all all and a second a second and a second a second and a second a		
79-01-6	Trichloroethene	- 10	Ŭ
108-87-2	Methylcyclohexane	10	Ü
78-87-5	1,2-Dichloropropane	10	ש
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	Ū
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	<del>U</del>
1			<del> </del>

01-1505

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	H1BX6
2	

Lab Name: CEIMIC CORP	Contract: 68-W-03-018	
Lab Code: CEIMIC Case No.: 33461	SAS No.: SDG No.:	H1BW2
Matrix: (soil/water) WATER	Lab Sample ID: 0412	206-05
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID: PC783	3
Level: (low/med) LOW	Date Received: 10/3	30/04
% Moisture: not dec.	Date Analyzed: 11/0	02/04
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1	.0
Soil Extract Volume: (uL)	Soil Aliquot Volume	e: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.				
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20.				<del> </del>
21.		<del> </del>		<del></del>
22.	<del></del>	<del> </del>		<del>                                     </del>
			<del> </del>	<del> </del>
24. 25.	<del></del>	<del> </del>	<del> </del>	<del> </del>
26.		<del> </del>	<del> </del>	<del> </del>
27.	<del></del>	<del> </del>	<del> </del>	<del> </del>
28.	<del></del>	<del> </del>	<del> </del>	<b>-</b>
29.		<del> </del> -	<del>                                     </del>	<del> </del>
$\frac{29}{30}$ .		<del> </del>	<del></del>	<del> </del>

AB 01-15-05

FORM I VOA-TIC

EPA SAMPLE NO.

H1BX7
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-06

Sample wt/vol:

5.000 (g/mĽ) MĽ

Lab File ID: PC784

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

75-71-8 Dichlorodifluoromethane

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

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	10	Ū	<u> </u>	
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			1 -	100
74-87-3	Chloromethane	10	U	}
75-01-4	Vinyl Chloride	10	Ū	İ
74-83-9	Bromomethane	10	Ū.	1
75-00-3	Chloroethane	10	Ū.	1
75-69-4	Trichlorofluoromethane	10	Ū	1
75-35-4	1,1-Dichloroethene	10	Ū	)
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū	1
67-64-1	Acetone	27	В.	W
75-15-0	Carbon Disulfide	10	Ū.	1
79-20-9	Methyl Acetate	10	Ū	
75-09-2	Methylene Chloride	5	JB	101
156-60-5	trans-1,2-Dichloroethene	10	Ū	1
1634-04-4	Methyl tert-Butyl Ether	10	Ū	i
75-34-3	1,1-Dichloroethane	10	U	}
156-59-2	cis-1,2-Dichloroethene	10	Ū	1
78-93-3	2-Butanone	10	Ū	us
67-66-3	Chloroform	10	Ū	1
71-55-6	1,1,1-Trichloroethane	10	Ū	1
110-82-7	Cyclohexane	10	U	}
56-23-5	Carbon Tetrachloride	10	Ū	1
71-43-2	Benzene	10	Ū	`}
107-06-2	1,2-Dichloroethane	10	U	1

FORM I VOA-1

## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-06

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC784

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	<u>U</u> .
108-10-1	4-Methyl-2-Pentanone	10	Ü
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	ַ
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	Ŭ
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ŭ
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū -
541-73-1	1,3-Dichlorobenzene	10	ָט
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ŭ
120-82-1	1,2,4-Trichlorobenzene	10	Ŭ

01-15-05

FORM I VOA-2

OLM04.3

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1		ı
	H1BX7	i

EPA SAMPLE NO.

Lab Name: CEIMIC COF	)RP	CC	IIC	CEIM	Name:	Lab
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Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461

SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-06

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: PC784

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: not dec.

Date Analyzed: 11/02/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Number TICs found: 1

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.16	24	<u> </u>
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FORM I VOA-TIC

OLM04.3

EPA SAMPLE NO.

SDG No.: H1BW2

	·	H1BW2
Lab Name: CEIMIC CORP	Contract: 68-W-03-018	

Lab Code: CEIMIC Case No.: 33461 SAS No.:

Lab Sample ID: 041206-01 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JN136

Level: (low/med) LOW Date Received: 10/30/04

% Moisture: \_\_\_\_ Decanted: (Y/N)\_\_\_ Date Extracted: 11/04/04

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/05/04

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

Extraction: (Type) CONT GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

100-52-7   Benzaldehyde			<del></del>	
111-44-4   bis (2-Chloroethyl) Ether				
95-57-8 2-Chlorophenol 10 U 95-48-7 2-Methylphenol 10 U 108-60-1 2,2'-oxybis(1-Chloropropane) 10 U 98-86-2 Acetophenone 10 U 106-44-5 4-Methylphenol 10 U 621-64-7 N-Nitroso-di-n-propylamine 10 U 67-72-1 Hexachloroethane 10 U 98-95-3 Nitrobenzene 10 U 98-95-1 Isophorone 10 U 88-75-5 2-Nitrophenol 10 U 105-67-9 2,4-Dimethylphenol 10 U 111-91-1 bis(2-Chloroethoxy)methane 10 U 120-83-2 2,4-Dichlorophenol 10 U 166-47-8 4-Chloroaniline 10 U 105-66-2 Caprolactam 10 U 105-66-2 Caprolactam 10 U 105-67-6 2-Methylnaphthalene 10 U 191-27-47-4 Hexachlorocyclopentadiene 10 U 99-59-50-7 4-Chloro-3-Methylphenol 10 U 99-59-54 2,4,5-Trichlorophenol 25 U 99-59-4 2,4,5-Trichlorophenol 25 U 99-58-7 2-Chlorophenol 25 U 99-58-7 2-Chlorophenol 25 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U 91-58-7 2-Chlorophenol 10 U	108-95-2			
95-48-7   2-Methylphenol   10   U   108-60-1   2,2'-oxybis(1-Chloropropane)   10   U   98-86-2   Acetophenone   10   U   106-44-5   4-Methylphenol   10   U   621-64-7   N-Nitroso-di-n-propylamine   10   U   67-72-1   Hexachloroethane   10   U   98-95-3   Nitrobenzene   10   U   78-59-1   Isophorone   10   U   88-75-5   2-Nitrophenol   10   U   10   U   11-91-1   bis(2-Chloroethoxy)methane   10   U   11-91-1   bis(2-Chloroethoxy)methane   10   U   120-83-2   2,4-Dichlorophenol   10   U   105-67-9   2,4-Dichlorophenol   10   U   105-60-2   Caprolactam   10   U   10   10   10   10   10   10			10	
108-60-1   2,2'-oxybis(1-Chloropropane)   10 U   98-86-2   Acetophenone   10 U   106-44-5   4-Methylphenol   10 U   106-44-5   4-Methylphenol   10 U   621-64-7   M-Nitroso-di-n-propylamine   10 U   67-72-1   Hexachloroethane   10 U   98-95-3   Nitrobenzene   10 U   10 U   88-75-5   1 Isophorone   10 U   10 U   105-67-9   2,4-Dimethylphenol   10 U   105-67-9   2,4-Dimethylphenol   10 U   101-91-1   bis(2-Chloroethoxy)methane   10 U   10 U   10-83-2   2,4-Dichlorophenol   10 U   100-47-8   4-Chloroaniline   10 U   105-67-8   4-Chloroaniline   10 U   105-60-2   Caprolactam   10 U   105-60-2   Caprolactam   10 U   105-60-2   Caprolactam   10 U   1			10	
98-86-2         Acetophenone         10         U           106-44-5         4-Methylphenol         10         U           621-64-7         N-Nitroso-di-n-propylamine         10         U           67-72-1         Hexachloroethane         10         U           98-95-3         Nitrobenzene         10         U           78-59-1         Isophorone         10         U           88-75-5         2-Nitrophenol         10         U           105-67-9         2,4-Dimethylphenol         10         U           111-91-1         bis (2-Chloroethoxy) methane         10         U           120-83-2         2,4-Dichlorophenol         10         U           91-20-3         Naphthalene         10         U           91-83-2         2,4-Dichlorophenol         10         U           91-64-7         4-Chloroaniline         10         U           91-63-3         Hexachlorobutadiene         10         U           105-60-2         Caprolactam         10         U           59-50-7         4-Chloro-3-Methylphenol         10         U           91-57-6         2-Methylnaphthalene         10         U           97-47-4	95-48-7		10	
106-44-5				_
621-64-7       N-Nitroso-di-n-propylamine       10       U         67-72-1       Hexachloroethane       10       U         98-95-3       Nitrobenzene       10       U         78-59-1       Isophorone       10       U         88-75-5       2-Nitrophenol       10       U         105-67-9       2,4-Dimethylphenol       10       U         111-91-1       bis (2-Chloroethoxy)methane       10       U         120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         91-57-6       2-Methylnaphthalene       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       10       U         88-06-2       2,4,6-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4				_
67-72-1       Hexachloroethane       10       U         98-95-3       Nitrobenzene       10       U         78-59-1       Isophorone       10       U         88-75-5       2-Nitrophenol       10       U         105-67-9       2,4-Dimethylphenol       10       U         111-91-1       bis (2-Chloroethoxy)methane       10       U         120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         105-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         105-60-2       Caprolactam       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroanili	106-44-5	4-Methylphenol	10	
98-95-3         Nitrobenzene         10         U           78-59-1         Isophorone         10         U           88-75-5         2-Nitrophenol         10         U           105-67-9         2,4-Dimethylphenol         10         U           111-91-1         bis (2-Chloroethoxy)methane         10         U           120-83-2         2,4-Dichlorophenol         10         U           91-20-3         Naphthalene         10         U           106-47-8         4-Chloroaniline         10         U           87-68-3         Hexachlorobutadiene         10         U           105-60-2         Caprolactam         10         U           59-50-7         4-Chloro-3-Methylphenol         10         U           91-57-6         2-Methylnaphthalene         10         U           77-47-4         Hexachlorocyclopentadiene         U3         10         U           88-06-2         2,4,6-Trichlorophenol         25         U           92-52-4         1,1'-Biphenyl         10         U           92-52-4         1,1'-Biphenyl         10         U           91-58-7         2-Chloronaphthalene         10         U	621-64-7		10	Ŭ
78-59-1       Isophorone       10       U         88-75-5       2-Nitrophenol       10       U         105-67-9       2,4-Dimethylphenol       10       U         111-91-1       bis (2-Chloroethoxy) methane       10       U         120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       UJ       10       U         88-06-2       2,4,6-Trichlorophenol       25       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         20	67-72-1	Hexachloroethane	10	_
88-75-5       2-Nitrophenol       10       U         105-67-9       2,4-Dimethylphenol       10       U         111-91-1       bis (2-Chloroethoxy) methane       10       U         120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       UT       10       U         88-06-2       2,4,6-Trichlorophenol       25       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U		Nitrobenzene	10	-
105-67-9       2,4-Dimethylphenol       10       U         111-91-1       bis(2-Chloroethoxy)methane       10       U         120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2 <td>78-59-1</td> <td>Isophorone</td> <td></td> <td>_</td>	78-59-1	Isophorone		_
111-91-1       bis(2-Chloroethoxy)methane       10       U         120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			10	
120-83-2       2,4-Dichlorophenol       10       U         91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       UT       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U	105-67-9	2,4-Dimethylphenol	10	Ū
91-20-3       Naphthalene       10       U         106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U				Ū
106-47-8       4-Chloroaniline       10       U         87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       UT       10       U         88-06-2       2,4,6-Trichlorophenol       25       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			10	
87-68-3       Hexachlorobutadiene       10       U         105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			10	
105-60-2       Caprolactam       10       U         59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       U       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U	106-47-8		10	ט
59-50-7       4-Chloro-3-Methylphenol       10       U         91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       UJ       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U		Hexachlorobutadiene	10	Ū
91-57-6       2-Methylnaphthalene       10       U         77-47-4       Hexachlorocyclopentadiene       UJ       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U				. –
77-47-4       Hexachlorocyclopentadiene       UJ       10       U         88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			10	1 -
88-06-2       2,4,6-Trichlorophenol       10       U         95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U	91-57-6		10	_
95-95-4       2,4,5-Trichlorophenol       25       U         92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			UJ 10	
92-52-4       1,1'-Biphenyl       10       U         91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U	88-06-2		10	U
91-58-7       2-Chloronaphthalene       10       U         88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U				I
88-74-4       2-Nitroaniline       25       U         131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			10	U
131-11-3       Dimethylphthalate       10       U         606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U	91-58-7	2-Chloronaphthalene		
606-20-2       2,6-Dinitrotoluene       10       U         208-96-8       Acenaphthylene       10       U         99-09-2       3-Nitroaniline       25       U			25	
208-96-8   Acenaphthylene   10   U	131-11-3		10	
99-09-2 3-Nitroaniline 25 U	606-20-2	2,6-Dinitrotoluene	10	
	208-96-8	Acenaphthylene		
83-32-9 Acenaphthene 10 U	99-09-2		25	U
	83-32-9	Acenaphthene	10	Ü

AB 01-1505

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW2 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

SDG No.: H1BW2

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 041206-01

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: JN136

Level:

(low/med) LOW

Date Received: 10/30/04

% Moisture: Decanted: (Y/N)

Date Extracted: 11/04/04

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 11/05/04

Injection Volume:

2.0(址)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N ...

pH:

Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO.

COMPOUND

51-28-5	2,4-Dinitrophenol	/).T	25	Ū
100-02-7	4-Nitrophenol		25	Ü
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	Ü
84-66-2	Diethylphthalate		10	<del>U</del> —
86-73-7	Fluorene		10	<del>U</del> —
7005-72-3	4-Chlorophenyl-phenylether	<del></del>	10	<del>-</del>
100-01-6	4-Nitroaniline		25	<del></del>
534-52-1	4,6-Dinitro-2-methylphenol	<del></del>	25	<del></del>
86-30-6	N-nitrosodiphenylamine (1)	uJ	$\frac{25}{10}$	Ü
101-55-3		<del></del>		
118-74-1	4-Bromophenyl-phenylether Hexachlorobenzene	<del></del>	10	U
1912-24-9		<del></del>	10	<del>U</del>
	Atrazine		10	, -
87-86-5	Pentachlorophenol		25	U
85-01-8	Phenanthrene		10	Ü
120-12-7	Anthracene		10	Ü
86-74-8	Carbazole		10	U
84-74-2	Di-n-butylphthalate		10	Ŭ
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylphthalate		10	Ū
91-94-1	3,3'-Dichlorobenzidine		10	Ŭ
56-55-3	Benzo(a)anthracene		10	Ŭ
218-01-9	Chrysene		10	Ū
117-81-7	bis(2-Ethylhexyl)phthalate		10	U
117-84-0	Di-n-octylphthalate		10	Ŭ
205-99-2	Benzo(b) fluoranthene		10	U
207-08-9	Benzo(k)fluoranthene		10	U
50-32-8	Benzo(a)pyrene		10	Ū
193-39-5	Indeno (1,2,3-cd) pyrene		10	Ū
53-70-3	Dibenzo(a,h)anthracene		10	Ū
191-24-2	Benzo(g,h,i)perylene		10	Ū

(1) - Cannot be separated from Diphenylamine

01-1505

## 1G

EPA SAMPLE NO.

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: JN136

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: Decanted: (Y/N)

Date Extracted:11/04/04

Date Analyzed: 11/05/04

Injection Volume: 2.0(uL)

UNKNOWN

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

Concentrated Extract Volume: 1000 (uL)

Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 3

CAS NUMBER

EST. CONC. COMPOUND NAME RT======= 7.42 4 | JB

	CITATOVIET			1022 11
2. 96-76-4	PHENOL, 2,4-BIS(1,1-DIMETHYL	9.84	4	NJ_
3.	UNKNOWN	15.41	4	J
4.				1
5.				
6.				<del> </del>
7.				<del> </del>
8.			·	<del> </del>
9.			<u> </u>	<u> </u>
10.				<u> </u>
11				1
12.				
13				
14.				† — – I
15				
16	<del></del>			<del> </del>
16. 17.				<del> </del>
18.				<del> </del>
10.				<b> </b>
19.				<b> </b>
20. 21.				L
21			i	ł l
22.				
22. 23.				
24. 25.				<del> </del>
25.				<del> </del>
26	<del></del>			<del> </del> -
26. 27.				<del> </del>
20			<del> </del>	<del> </del>
28.				<b> </b>
29.				<b> </b>
30.				<u></u>

FORM I SV-TIC

OLM04.3

AB 01-1505

#### 1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER Lab Sample ID: 041206-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JN137

Level: (low/med) LOW Date Received: 10/30/04

% Moisture: \_\_\_\_ Decanted: (Y/N) \_\_ Date Extracted: 11/04/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/05/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction: (Type) CONT

CONCENTRATION UNITS:

 CAS NO.
 COMPOUND
 (ug/L or ug/Kg)
 UG/L
 Q

 100-52-7
 Benzaldehyde
 UJ
 10
 U

 108-95-2
 Phenol
 10
 U

 111-44-4
 bis(2-Chloroethyl)Ether
 10
 U

 95-57-8
 2-Chlorophenol
 10
 U

108-95-2	Phenoi	<u> </u>		i
111-44-4	bis(2-Chloroethyl)Ether		10	Ū
95-57-8	2-Chlorophenol		10	Ū
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-oxybis(1-Chloropropane)		10	บ
98-86-2	Acetophenone		10	Ŭ _
106-44-5	4-Methylphenol		10	Ū
621-64-7	N-Nitroso-di-n-propylamine		10	Ū
67-72-1	Hexachloroethane		10	Ū
98-95-3	Nitrobenzene		10	Ū
78-59-1	Isophorone		10	Ū
88-75-5	2-Nitrophenol		10	Ū
105-67-9	2,4-Dimethylphenol		10	Ū
111-91-1	bis(2-Chloroethoxy)methane		10	Ū
120-83-2	2,4-Dichlorophenol		10	Ū
91-20-3	Naphthalene		10	Ū
106-47-8	4-Chloroaniline		10	Ü
87-68-3	Hexachlorobutadiene		10	U
105-60-2	Caprolactam		10	U
59-50-7	4-Chloro-3-Methylphenol		10	ប
91-57-6	2-Methylnaphthalene		10	Ŭ
77-47-4	Hexachlorocyclopentadiene	UJ	10	ับ
88-06-2	2,4,6-Trichlorophenol		10	Ŭ
95-95-4	2,4,5-Trichlorophenol		25	Ū
92-52-4	1,1'-Biphenyl		10	U
91-58-7	2-Chloronaphthalene		10	Ū
88-74-4	2-Nitroaniline		25	Ū
131-11-3	Dimethylphthalate		10	Ŭ
606-20-2	2,6-Dinitrotoluene		10	Ū
208-96-8	Acenaphthylene		10	Ū
99-09-2	3-Nitroaniline		25	Ŭ
83-32-9	Acenaphthene	<u> </u>	<b>J</b> 10	Ū

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: JN137

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: \_\_\_\_ Decanted: (Y/N)\_\_\_ Date Extracted: 11/04/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/05/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5	2,4-Dinitrophenol	u.	25	U
100-02-7	4-Nitrophenol		25	ับ
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	Ū
84-66-2	Diethylphthalate		10	Ŭ
86-73-7	Fluorene		10	Ū
7005-72-3	4-Chlorophenyl-phenylether		10	U
100-01-6	4-Nitroaniline		25	U
534-52-1	4,6-Dinitro-2-methylphenol	Uj		U
86-30-6	N-nitrosodiphenylamine (1)		10	U
101-55-3	4-Bromophenyl-phenylether		10	Ū
118-74-1	Hexachlorobenzene		10	Ū
1912-24-9	Atrazine		10	Ū
87-86-5	Pentachlorophenol		25	Ŭ
85-01-8	Phenanthrene		10	Ü
120-12-7	Anthracene		10	Ū
86-74-8	Carbazole		10	Ū
84-74-2	Di-n-butylphthalate		10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	Ŭ
85-68-7	Butylbenzylphthalate		10	U
91-94-1	3,3'-Dichlorobenzidine		10	U
56-55-3	Benzo (a) anthracene		10	Ŭ
218-01-9	Chrysene	1	. 10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	1	J
117-84-0	Di-n-octylphthalate	<i>u</i> .	10	Ū
205-99-2	Benzo(b) fluoranthene		10	Ü
207-08-9	Benzo(k)fluoranthene		10	Ū
50-32-8	Benzo (a) pyrene		10	Ū
193-39-5	Indeno(1,2,3-cd)pyrene		10	Ü
53-70-3	Dibenzo(a,h)anthracene		/ 10	U
191-24-2	Benzo(g,h,i)perylene	U	<b>J</b> 10	Ū

(1) - Cannot be separated from Diphenylamine

AB 01-1505

#### 1G SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H1BX5
-------

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: JN137

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: Decanted: (Y/N)\_\_\_\_

Concentrated Extract Volume:

1000 (uL)

Date Extracted:11/04/04

Date Analyzed: 11/05/04

Injection Volume: 2.0(uL) GPC Cleanup:

(Y/N) N

pH:

Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Dilution Factor: 1.0

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
CAD NOTEEN	COMPOUND NAME		ES1. CONC.	i 1
1.	UNKNOWN	7.42		JB /
2.	UNKNOWN	15.20		J .
3.	CITATONIA	23.20		<del>                                     </del>
4.				
5.				
6.		<del></del>		
7.		<del> </del>		<del>                                     </del>
8.				<del>                                     </del>
9.				<del> </del>
10.				<u> </u>
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				<u> </u>
26.				1
27.				
28.				
29.				
30.				

FORM I SV-TIC

OLM04.3

λB 01.15-05

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018 H1BX6

SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER Lab Sample ID: 041206-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JN138

Case No.: 33461

Lab Code: CEIMIC

Level: (low/med) LOW Date Received: 10/30/04

% Moisture: Decanted: (Y/N) Date Extracted: 11/04/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/05/04

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

100-52-7	Benzaldehyde		<b>1</b> 10	Ŭ
108-95-2	Phenol		10	U
111-44-4	bis(2-Chloroethyl)Ether		10	Ū
95-57-8	2-Chlorophenol		10	<u>ט</u>
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-oxybis(1-Chloropropane)		10	Ŭ
98-86-2	Acetophenone		10	Ü
106-44-5	4-Methylphenol		10	Ū
621-64-7	N-Nitroso-di-n-propylamine		10	Ū
67-72-1	Hexachloroethane		10	Ū
98-95-3	Nitrobenzene		10	Ŭ
78-59-1	Isophorone		10	Ü
88-75-5	2-Nitrophenol		10	Ū
105-67-9	2,4-Dimethylphenol	····	10	Ū
111-91-1	bis(2-Chloroethoxy)methane		10	Ū
120-83-2	2,4-Dichlorophenol		10	Ū
91-20-3	Naphthalene		10	Ū
106-47-8	4-Chloroaniline		10	Ū
87-68-3	Hexachlorobutadiene		10	Ū
105-60-2	Caprolactam		10	Ū
59-50-7	4-Chloro-3-Methylphenol		10	Ū
91-57-6	2-Methylnaphthalene		10	Ū
77-47-4	Hexachlorocyclopentadiene	uj	10	Ū
88-06-2	2,4,6-Trichlorophenol		10	Ū
95-95-4	2,4,5-Trichlorophenol		25	Ū
92-52-4	1,1'-Biphenyl		10	Ŭ
91-58-7	2-Chloronaphthalene		10	Ū
88-74-4	2-Nitroaniline		25	Ū
131-11-3	Dimethylphthalate		10	Ū
606-20-2	2,6-Dinitrotoluene		10	Ū
208-96-8	Acenaphthylene		10	Ū
99-09-2	3-Nitroaniline	j	25	Ū
83-32-9				Ü

AB 01-15-05

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDG No.: H1BW2

H1BX6 Lab Name: CEIMIC CORP Contract: 68-W-03-018 SAS No.:

Lab Sample ID: 041206-05 Matrix: (soil/water) WATER

Lab File ID: JN138 1000 (g/mL) ML Sample wt/vol:

Case No.: 33461

Lab Code: CEIMIC

Date Received: 10/30/04 (low/med) LOW Level:

Date Extracted: 11/04/04 % Moisture: Decanted: (Y/N)\_\_\_

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/05/04

Dilution Factor: 1.0 Injection Volume: 2.0 (uL)

GPC Cleanup: (Y/N) N Extraction: (Type) CONT pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5	2,4-Dinitrophenol	UJ	25	Ū.
100-02-7	4-Nitrophenol		25	U
132-64-9	Dibenzofuran		10	Ū
121-14-2	2,4-Dinitrotoluene		10	Ü
84-66-2	Diethylphthalate		10	Ū
86-73-7	Fluorene		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
100-01-6	4-Nitroaniline		25	Ŭ
534-52-1	4,6-Dinitro-2-methylphenol	UJ	25	U
86-30-6	N-nitrosodiphenylamine (1)		10	U
101-55-3	4-Bromophenyl-phenylether		10	Ŭ
118-74-1	Hexachlorobenzene		10	Ü
1912-24-9	Atrazine		10	U
87-86-5	Pentachlorophenol		25	Ŭ
85-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	Ū
86-74-8	Carbazole		10	U
84-74-2	Di-n-butylphthalate		10	U
206-44-0	Fluoranthene		10	Ü
129-00-0	Pyrene		10	Ŭ
85-68-7	Butylbenzylphthalate		10	U
91-94-1	3,3'-Dichlorobenzidine		10	U
56-55-3	Benzo (a) anthracene		10	Ŭ
218-01-9	Chrysene		10	Ŭ
117-81-7	bis(2-Ethylhexyl)phthalate		10	U
117-84-0	Di-n-octylphthalate		10	U
205-99-2	Benzo(b) fluoranthene		10	Ŭ
207-08-9	Benzo(k)fluoranthene		10	U
50-32-8	Benzo(a)pyrene		10	Ü
193-39-5	Indeno(1,2,3-cd)pyrene		10	Ü
53-70-3	Dibenzo(a,h)anthracene	J	10	U
191-24-2	Benzo(g,h,i)perylene	<u>u</u>	10	Ū

(1) - Cannot be separated from Diphenylamine

01.15-05

#### 1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H1BX6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461

SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: JN138

27. 28. 29. 30.

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: \_\_\_\_ Decanted: (Y/N)\_\_\_

Date Extracted:11/04/04

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/05/04

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	7.41	3	ј ЈВ	R
2.	UNKNOWN SILOXANE	12.10	2		
3.	UNKNOWN SILOXANE	12.65	5		
4.	UNKNOWN SILOXANE	13.12	5	J	
5.	UNKNOWN SILOXANE	13.58	9	J	1
6.	UNKNOWN SILOXANE	14.07	11	J	ļ
7.	UNKNOWN SILOXANE	14.61	13	J	1
8.	UNKNOWN SILOXANE	15.23	14	J	-
9.	UNKNOWN SILOXANE	15.97	14	J	1
10.	UNKNOWN SILOXANE	16.85	13	J	1
11.	UNKNOWN SILOXANE	17.93	10	J	
12.	UNKNOWN SILOXANE	19.26	10	J	1
13.	UNKNOWN SILOXANE	20.89	10	J	
14.	UNKNOWN SILOXANE	22.92	10	J	1
15.					
16.					1
17.				T	1
18.					
19.					1
20.					
21.					
22.					1
23.					1
24.					Ί
25.					
26.					
					• 1

FORM I SV-TIC

OLM04.3

AB 01-1505

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX7 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-06

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: JN139

% Moisture: \_\_\_\_ Decanted: (Y/N)\_\_\_

Level: (low/med) LOW

Date Received: 10/30/04

Date Extracted: 11/04/04

Concentrated Extract Volume:

1000 (uL) Date Analyzed: 11/05/04

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/L Q

100-52-7	Benzaldehyde	1	7.7 10	U
108-95-2	Phenol		$\frac{10}{10}$	<del>- 0</del> -
111-44-4	bis(2-Chloroethyl)Ether		10	<del></del>
95-57-8	2-Chlorophenol		10	<del>""</del>
95-48-7	2-Methylphenol		10	<del>                                     </del>
108-60-1	2,2'-oxybis(1-Chloropropane)		10	<del></del>
98-86-2	Acetophenone		10	<del>- 0</del>
106-44-5	4-Methylphenol		10	Ü
621-64-7	N-Nitroso-di-n-propylamine	-	10	Ü
67-72-1	Hexachloroethane		10	Ü
98-95-3	Nitrobenzene		10	Ū
78-59-1	Isophorone	-	10	Ü
88-75-5	2-Nitrophenol		10	Ū
105-67-9	2,4-Dimethylphenol	1	10	Ū
111-91-1	bis(2-Chloroethoxy)methane		10	Ū
120-83-2	2,4-Dichlorophenol		10	Ū
91-20-3	Naphthalene		10	Ū
106-47-8	4-Chloroaniline		10	Ū
87-68-3	Hexachlorobutadiene		10	Ū
105-60-2	Caprolactam		10	Ū
59-50-7	4-Chloro-3-Methylphenol		10	Ū
91-57-6	2-Methylnaphthalene		<b>y</b> 10	U
77-47-4	Hexachlorocyclopentadiene	$\bigcup U_i$	10	Ū
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	Ū
92-52-4	1,1'-Biphenyl		10	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	Ū
131-11-3	Dimethylphthalate		10	Ū
606-20-2	2,6-Dinitrotoluene		10	Ū
208-96-8	Acenaphthylene		10	Ū
99-09-2	3-Nitroaniline	`	25	Ŭ
83-32-9	Acenaphthene	u	<b>5</b> 10	U

01-15-05

FORM I SV-1

OLM04.3

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDG No.: H1BW2

Contract: 68-W-03-018 Lab Name: CEIMIC CORP SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 041206-06

Lab File ID: JN139 Sample wt/vol: 1000 (g/mL) ML

Case No.: 33461

Lab Code: CEIMIC

Date Received: 10/30/04 Level: (low/med) LOW

% Moisture: \_\_\_\_ Decanted: (Y/N)\_\_\_ Date Extracted: 11/04/04

Date Analyzed: 11/05/04 Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

Extraction: (Type) CONT GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q CAS NO. COMPOUND

51-28-5	2,4-Dinitrophenol	UJ		Ū
100-02-7	4-Nitrophenol		25	
132-64-9	Dibenzofuran		10	Ū
121-14-2	2,4-Dinitrotoluene		10	Ū
84-66-2	Diethylphthalate		10	Ū
86-73-7	Fluorene		10	Ū
7005-72-3	4-Chlorophenyl-phenylether		10	U
100-01-6	4-Nitroaniline	J	25	Ū
534-52-1	4,6-Dinitro-2-methylphenol	u.	5 25	Ū
86-30-6	N-nitrosodiphenylamine (1)		10	Ū
101-55-3	4-Bromophenyl-phenylether		10	Ū
118-74-1	Hexachlorobenzene		10	U
1912-24-9	Atrazine		10	U
87-86-5	Pentachlorophenol		25	Ū
85-01-8	Phenanthrene		10	Ū
120-12-7	Anthracene		10	Ū
86-74-8	Carbazole		10	Ū
84-74-2	Di-n-butylphthalate		10	Ū
206-44-0	Fluoranthene		10	Ü
129-00-0	Pyrene		10	Ū
85-68-7	Butylbenzylphthalate		10	Ū
91-94-1	3,3'-Dichlorobenzidine		10	Ū
56-55-3	Benzo (a) anthracene		10	Ū
218-01-9	Chrysene	u.	5 10	U
117-81-7	bis(2-Ethylhexyl)phthalate		1	J
117-84-0	Di-n-octylphthalate	u	7 10	Ū
205-99-2	Benzo(b)fluoranthene		10	U
207-08-9	Benzo(k)fluoranthene		10	U
50-32-8	Benzo(a)pyrene		10	U
193-39-5	Indeno (1,2,3-cd) pyrene		10	Ū
53-70-3	Dibenzo(a,h)anthracene		10	Ū
191-24-2	Benzo(g,h,i)perylene		10	Ū

(1) - Cannot be separated from Diphenylamine

AB 01-1505

FORM I SV-2

#### 1G SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H1BX7
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Lab	Name:	CEIMIC	CORP	

Contract:	68-W-03-018	
		' <del></del>

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-06

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: JN139

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture:

Date Extracted:11/04/04

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 11/05/04

Injection Volume: 2.0(uL)

Number TICs found: 3

Decanted: (Y/N)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	<del></del>			<del></del> :
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.41	2 ====================================	JB R
$\left  \frac{1}{2} \right $	UNKNOWN AMIDE	15.27	4	
3.	UNKNOWN	15.47	2	J
4.				
5.				
6.				
7.				†I
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				<u> </u>
16.				
17.		<u> </u>		L
18.		<u> </u>		
19.				1
20.				<u> </u>
21.		<u> </u>		<u> </u>
22.				
23.				<u> </u>
24.		<u> </u>		
25.				
26.				<u>                                     </u>
27.		<u> </u>		<u> </u>
28.		<u> </u>		<u> </u>
29.		<b>1</b>		
30.			<u> </u>	

FORM I SV-TIC

OLM04.3 011505

#### 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-01

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

% Moisture:

Decanted: (Y/N)

Date Received: 10/30/04

Extraction: (Type) SEPF

Date Extracted: 11/03/04

Concentrated Extract Volume:

11096-82-5 Aroclor-1260

10000 (uL)

Date Analyzed: 11/05/04

Injection Volume:

1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(X/N) N

pH: \_\_\_\_

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND 319-84-6 alpha-BHC 0.050 U 319-85-7 beta-BHC 0.050 319-86-8 | delta-BHC 0.050 U

1 323 00 0	dered bile	0.030	
58-89-9	gamma-BHC (Lindane)	0.050	Ŭ
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	Ū
1024-57-3	Heptachlor epoxide	0.050	υ
959-98-8	Endosulfan I	0.050	Ü
60-57-1	Dieldrin	0.10	Ŭ
72-55-9	4,4'-DDE	0.10	Ü
72-20-8	Endrin	0.10	Ŭ
33213-65-9	Endosulfan II	0.10	Ŭ
72-54-8	4,4'-DDD	0.10	Ū
1031-07-8	Endosulfan sulfate	0.10	Ü
50-29-3	4,4'-DDT	0.10	Ŭ
72-43-5	Methoxychlor	0.50	Ū
53494-70-5	Endrin ketone	0.10	Ū
7421-93-4	Endrin aldehyde	0.10	Ū
5103-71-9	alpha-Chlordane	0.050	Ū
5103-74-2	gamma-Chlordane	0.050	Ū
8001-35-2	Toxaphene	5.0	Ū
12674-11-2	Aroclor-1016	1.0	Ū
11104-28-2	Aroclor-1221	2.0	Ū
11141-16-5	Aroclor-1232	1.0	Ū
53469-21-9	Aroclor-1242	1.0	Ū
12672-29-6	Aroclor-1248	1.0	Ū
11097-69-1	Aroclor-1254	1.0	Ū

01-15-05

#### 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX5

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Lab Sample ID: 041206-04 Matrix: (soil/water) WATER

1000 (g/mL) ML Lab File ID: Sample wt/vol:

% Moisture: Decanted: (Y/N) \_\_\_ Date Received: 10/30/04

Date Extracted: 11/03/04 Extraction: (Type) SEPF

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/05/04

Dilution Factor: 1.0 Injection Volume: 1.0(uL)

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

			<u> </u>	
319-84-6	alpha-BHC	u <u></u>		U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	Ū
58-89-9	gamma-BHC (Lindane)		0.050	Ū
76-44-8	Heptachlor		0.050	Ū
309-00-2	Aldrin		0.050	Ū
1024-57-3	Heptachlor epoxide		0.050	Ū
959-98-8	Endosulfan I		0.050	Ū
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE		0.10	Ū
72-20-8	Endrin		0.10	Ū
33213-65-9	Endosulfan II		0.10	Ū
72-54-8	4,4'-DDD		0.10	Ū
1031-07-8	Endosulfan sulfate		0.10	Ū
50-29-3	4,4'-DDT		0.10	Ū
72-43-5	Methoxychlor		0.50	Ū
53494-70-5	Endrin ketone		0.10	Ŭ
7421-93-4	Endrin aldehyde		0.10	Ū
5103-71-9	alpha-Chlordane		0.050	Ū
5103-74-2	gamma-Chlordane		0.050	Ū
8001-35-2	Toxaphene		5.0	Ū
12674-11-2	Aroclor-1016		1.0	Ū
11104-28-2	Aroclor-1221	1	2.0	Ü
11141-16-5	Aroclor-1232		1.0	Ū
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	Ū
11097-69-1	Aroclor-1254	1	1.0	Ū
11096-82-5	Aroclor-1260	u	J 1.0	Ŭ

01-15-05

FORM I PEST

OLM04.3

H1BX6 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER

Lab Sample ID: 041206-05

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

% Moisture: \_\_\_\_ Decanted: (Y/N) \_\_\_

Date Received: 10/30/04

Extraction:

(Type) SEPF

Date Extracted: 11/03/04

Concentrated Extract Volume:

Date Analyzed: 11/05/04

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH: \_

10000 (uL)

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	U1 0.050 U
319-85-7	beta-BHC	0.050 U
319-86-8	delta-BHC	0.050 U
58-89-9	gamma-BHC (Lindane)	0.050 U
76-44-8	Heptachlor	0.050 U
309-00-2	Aldrin	0.050 U
1024-57-3	Heptachlor epoxide	0.050 U
959-98-8	Endosulfan I	0.050 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin ketone	0.10 U
7421-93-4	Endrin aldehyde	0.10 U
5103-71-9	alpha-Chlordane	0.050 U
5103-74-2	gamma-Chlordane	0.050 U
8001-35-2	Toxaphene	5.0 U
12674-11-2	Aroclor-1016	1.0 U
11104-28-2	Aroclor-1221	2.0 U
11141-16-5	Aroclor-1232	1.0 U
53469-21-9	Aroclor-1242	1.0 U
12672-29-6	Aroclor-1248	1.0 U
11097-69-1	Aroclor-1254	<b>↓</b> 1.0 U
11096-82-5	Aroclor-1260	<b>UJ</b> 1.0 U

01-15-05

FORM I PEST

OLM04.3

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW2

Matrix: (soil/water) WATER Lab Sample ID: 041206-06

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ Decanted: (Y/N) \_\_\_ Date Received: 10/30/04

Extraction: (Type) SEPF Date Extracted: 11/03/04

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/05/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	0.050	Ŭ
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	ט
58-89-9	gamma-BHC (Lindane)	0.050	Ŭ
76-44-8	Heptachlor	0.050	Ū
309-00-2	Aldrin	0.050	Ŭ
1024-57-3	Heptachlor epoxide	0.050	Ū
959-98-8	Endosulfan I	0.050	Ŭ
60-57-1	Dieldrin	0.10	Ū
72-55-9	4,4'-DDE	0.10	Ū
72-20-8	Endrin	0.10	Ū
33213-65-9	Endosulfan II	0.10	Ū
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	Ū
50-29-3	4,4'-DDT	0.10	Ū
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	Ū
7421-93-4	Endrin aldehyde	0.10	Ū
5103-71-9	alpha-Chlordane	0.050	Ū
5103-74-2	gamma-Chlordane	0.050	Ū
8001-35-2	Toxaphene	5.0	Ū
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	Ū
11096-82-5	Aroclor-1260	1.0	Ū

AB 01-15-03

# REGION VIII DATA VALIDATION REPORT ORGANICS - VOA, BNA, and PEST/PCB

Case No. / TDD No.	Site N	ame	Operable Unit
33461 / 0501-0004	Spanish Fork Sa	lvage Yard	
RPM/OSC Name			
Luke Chavez			
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
Ceimic Corporation	68-W-03-018	H1BW5	

Review Assigned Date <u>January 14, 2005</u> Data Validator <u>Lisa Tyson</u>
Review Completion Date <u>January 28, 2005</u> Report Reviewer <u>Bill Fear</u>

Sample ID	Station Location	Matrix	Analysis
H1BW5	SFSY-SS-01	Soil	CLP - Volatile, Semivolatile, and Pesticide/PCB Analyses
H1BW6	SFSY-SS-02		
H1BW7	SFSY-SS-03		
H1BW8	SFSY-SS-04		
H1BW9	SFSY-SS-05		
H1BX0	SFSY-SS-06		
H1BX1	SFSY-SS-07		
H1BX2	SFSY-SS-08		
H1BX3	SFSY-SS-09		
H1BX4	SFSY-SS-10		

**Data Validation Report** 

# URS Operating Services, Inc.

### DATA QUALITY STATEMENT

()	Data are ACCEPTABLE according to by the reviewer.  Data are UNACCEPTABLE according		al Guidelines with no qualifiers (flags) added
(X)	Data are acceptable with QUALIFICA	ATIONS noted	in review.
Telepl	hone/Communication Logs Enclosed?	Yes	NoX
TPO A	Attention Required? Yes	NoX	If yes, list the items that require attention:

#### ORGANIC DATA VALIDATION REPORT

#### REVIEW NARRATIVE SUMMARY

This data package was reviewed according to the EPA document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-20% of the results reported in <u>each</u> of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

Case No. 33461, SDG No. H1BW5 consisted of 10 soil samples for volatile, semivolatile, and pesticide/PCB CLP organic analyses.

The laboratory performed the required library search on all non-target sample components. TICs reported in both samples and blanks were rejected (R).

The following tables list data qualifiers added to the data. (Please see Data Qualifier Definitions, attached to the end of this report.)

Sample Number	Volatile Compound	Qualifier	Reason For Qualification	Review Section
All samples	1 '		Initial calibration %RSD > 30%	4
	Dichlorodifluoromethane Acetone 2-Butanone  Continuing calibration %D > 25%			
	Methylene chloride	U	Blank contamination	8

Sample Number	Semivolatile Compound	Qualifier	Reason for Qualification	Review Section
All samples	Hexachlorocyclopentadiene 2-4-Dinitrophenol	1/UJ	Initial calibration %RSD >30%	4
	2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol		Continuing calibration %D > 25%	

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Sample Number	Pesticide Compound	Qualifier	Reason For Qualification	Review Section
All samples	All pesticide/PCB compounds flagged "P"	J	%D between columns greater than 25%	9

**Data Validation Report** 

Organic - 5



Method Number <u>OLM04.3</u> Revision **Organic Data Completeness Checklist VOA** Quality Control Summary Package P Surrogate Recovery Summary P MS/MSD Summary P Method Blank Summary P GC/MS Tuning and Mass Calibration Sample Data Package P Holding Times (CLASS Sample Traffic Reports/UOS Chain-of-Custody) P Organic Analysis Data Sheets P Reconstructed Ion Chromatogram(s) (RIC) P \_ Quantitation Reports Mass Spectral Data Mass Spectral Library Search for TICs Standards Data Package NR Current List of Laboratory/Instrument Detection Limits P Initial Calibration Data for each instrument P Continuing Calibration Data for each instrument P Internal Standard Area Summary VOA Standards RICs P VOA Standards Quantitation Reports Raw QC Package BFB mass spectra and mass listings Reagent Blank Data P Organic Analysis Data Sheets P RIC or Total Ion Chromatogram P\_ Quantitation Reports <u>P\_</u> Mass Spectral Data P Library Search for TICs Matrix Spike/Matrix Spike Duplicate Data P Organic Analysis Data Sheets P RIC P Quantitation Reports NA Mass Spectral Data NA Library search for TICs KEY: P = Provided in original data package = Provided as resubmission R

NA = Not applicable to this data package or analysis

NR = Not required

H1BW50

NP = Not provided in original data package or as resubmission



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#### 1. DELIVERABLES

Comments:

	All deliverables were present as specified in the subcontract.
	VOA: Yes X No
	Comments: None.
2.	HOLDING TIMES AND PRESERVATION CRITERIA
	All method holding times were met.
	VOA: Yes_X_ No
	Comments: The samples were analyzed within ten days from sample receipt at the laboratory
	All technical holding times and preservation criteria were met.
	VOA: Yes_X_ No
	Comments: The soil samples were analyzed within 14 days from sample collection. The sample cooler was received within the temperature criteria of $4 \pm 2$ °C. No shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data were evaluated.
3.	BFB PERFORMANCE RESULTS
	The bromofluorobenzene (BFB) performance results were within the specified control limits. Al appropriate BFB results were included.
	VOA: Yes_X_ No
	Comments: BFB instrument performance checks were run for each 12 hours of analysis. Ion abundance criteria were met and were verified from raw data.
4.	INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS
	Initial instrument calibrations were performed according to method requirements and met th specified control limits listed in the Functional Guidelines.
	VOA: Ves No X

H1BW5o Organic - 6

Initial calibration standards containing both volatile target compounds and surrogate

compounds were analyzed at the required frequency. The average relative response



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factors (RRFs) for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the relative percent relative standard deviations (%RSDs) for compounds that were greater than 30% in the initial calibrations and the qualifiers added to the data:

Compound	%RSD	Associated Samples	Qualifiers
Methylene chloride 2-Hexanone 1,2,4-Trichlorobenzene	32.7 31.4 34.0	All samples	J/UJ

Continuing instrument calibrations were performed according to method requirements and met specified control limits listed in the Functional Guidelines.

VOA: Yes\_\_\_ No\_X\_

Comments:

Continuing calibration standards containing both target compounds and surrogate compounds were analyzed at the beginning of each 12-hour analysis period. The average RRFs for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the percent differences (%Ds) for compounds that were greater than 25% in the continuing calibrations and the qualifiers added to the data:

Compound	%D	Associated Samples	Qualifiers
Dichlorodifluoromethane Acetone 2-Butanone	53.8 47.9 26.0	All samples	J/UJ

#### 5. SURROGATE COMPOUND RECOVERY

Surrogate compound recovery analysis was performed according to method requirements and results met specified control limits.

VOA: Yes\_X No\_\_\_

Comments:

Surrogate compounds were added to all samples and blanks. The surrogate percent recoveries (%Rs) were all within the QC limits. Summary forms and raw data were evaluated.



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#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

VOA: Yes\_\_\_ No\_X NA\_\_

Comments: MS/MSD analyses were performed on soil sample H1BX3. Summary forms and

raw data were evaluated.

The following table lists the results for the MS/MSD analyses that were outside criteria; however, no action is taken based solely on MS/MSD:

Sample	Compound	Percent Recovery		RPD	Control Limits		Qualifiers
		MS	MSD		% R	RPD	
H1BX3	1,1-Dichloroethene	26	32		59-172		None
	Trichloroethene	34	45	28	62-137	24	
	Benzene	41	53	26	66-142	21	!
	Toluene	41	50		59-139		:
	Chlorobenzene	26	35	30	60-133	21	

#### 7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

VOA: Yes\_X No\_\_

Comments: Internal standard area counts did not vary by more than a factor of two from the associated 12-hour calibration standard. The internal standard retention times did

associated 12-nour calibration standard. The internal standard retention times did not vary more than  $\pm$  30 seconds from the retention time of the associated 12-hour

calibration standards. Summary forms and raw data were evaluated.

#### 8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified limits.

VOA: Yes\_\_\_ No\_X\_



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Comments:

Method blank analyses were performed after the calibration standards and once for every 12-hour time period beginning with a BFB analysis. A storage blank (VHBLK01) was also analyzed. Summary forms and raw data were evaluated.

Contamination was detected in the volatile blanks as summarized in the following table. Quantitation limits in the associated samples were raised in accordance with the rules set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999.

#### **Blank Target Compounds**

Blank ID	Contaminant	Concentration Found in Blank (ug/Kg)	Associated Samples	Concentration Found in Sample (ug/L)	Qualifier/ Adjustment
VBLKLC	Methylene chloride	4	H1BW5 H1BW6 H1BW7 H1BW8 H1BW9 H1BX0 H1BX1 H1BX2 H1BX3 H1BX4	15 15 9 10 13 5 4 4 6 5	U U 10 U U U 10 U 10 U 15 U 16 U

Methylene chloride were also reported in storage blank, VHBLK01; however, no additional qualification was required.

Tentatively identified compounds (TICs) were not reported in the method or storage blanks.

#### 9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

VOA: Yes\_X No\_\_\_

Comments:

Sample relative retention times (RRTs) were within  $\pm$  0.06 RRT units of the standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions agreed within  $\pm$  20% between standard and sample spectra.

TICs were not detected in the samples.

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10. Add	litional	Comments of	or l	Problems	/Reso	lutions	Not	Addr	essed	Abov	'e
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VOA: Yes\_\_\_ No\_X

Comments: None.



## Method Number <u>OLM04.3</u>

Revision \_\_\_\_

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## Organic Data Completeness Checklist BNA

#### Quality Control Summary Package

- P Surrogate Recovery Summary
- P MS/MSD Summary
- P Method Blank Summary
- P GC/MS Tuning and Mass Calibration

#### Sample Data Package

- P Holding Times (CLASS Sample Traffic Reports/UOS Chain-of-Custody)
- P Organic Analysis Data Sheets
- P Reconstructed Ion Chromatogram(s) (RIC)
- P Quantitation Reports
- P Mass Spectral Data
- P Mass Spectral Library Search for TICs

#### Standards Data Package

- NR Current List of Laboratory/Instrument Detection Limits
- P Initial Calibration Data for each instrument
- P Continuing Calibration Data for each instrument
- P Internal Standard Area Summary
- P BNA Standards RICs
- P BNA Standards Quantitation Reports

#### Raw QC Package

P DFTPP mass spectra and mass listings

#### Reagent Blank Data

- P Organic Analysis Data Sheets
- P RIC or Total Ion Chromatogram
- P Quantitation Reports
- P Mass Spectral Data
- P Library Search for TICs

#### Matrix Spike/Matrix Spike Duplicate Data

- P Organic Analysis Data Sheets
- P RIC
- P Quantitation Reports
- NA Mass Spectral Data
- NA Library search for TICs

#### KEY:

- P = Provided in original data package
- R = Provided as resubmission
- NP = Not provided in original data package or as resubmission
- NR = Not required
- NA = Not applicable to this data package or analysis



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1.	<b>DELIVERABLE</b>	S

	All deliverables were present as specified in the subcontract.
	BNA: Yes X No
	Comments: None.
2.	HOLDING TIMES AND PRESERVATION CRITERIA
	All method holding times were met.
	BNA: Yes_X No
	Comments: The samples were extracted within ten days from sample receipt at the laboratory.
	All holding times and preservation criteria were met.
	BNA: Yes_X_ No
	Comments: The soil samples were extracted within 14 days from sample collection and all extracts were analyzed within 40 days of extraction. The sample cooler was received within the temperature criteria of $4 \pm 2$ °C. No shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data were evaluated.
3.	DFTPP PERFORMANCE RESULTS
	The decafluorotriphenylphosphine (DFTPP) performance results were within the specified control limits. All appropriate DFTPP results were included.
	BNA: Yes_X_ No
	Comments: Instrument performance check solutions were analyzed at the beginning of each 12 hour period of sample analysis. Ion abundance criteria were met and were verified from raw data.
4.	INSTRUMENT CALIBRATIONS: INITIAL AND CONTINUING STANDARDS
	Initial instrument calibrations were performed according to method requirements and met the specified control limits listed in the Functional Guidelines.
	BNA: Yes No_X_

Comments:

Initial calibration standards containing both target compounds and surrogate compounds were analyzed at the required frequency. The average relative response factors (RRFs) for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the percent relative standard deviations (%RSDs) that exceeded 30% and qualifiers added to the data:

Compound	%RSD	Associated Samples	Qualifiers
Hexachlorocyclopentadiene 2-4-Dinitrophenol	30.3 35.6	All samples	J/UJ

Continuing instrument calibrations were performed according to method requirements and met specified control limits listed in the Functional Guidelines.

BNA: Yes\_\_\_ No\_X

Comments:

Continuing calibration standards containing both target compounds and surrogate compounds were analyzed at the beginning of each 12-hour analysis period. The RRFs for all target compounds and surrogate compounds were greater than or equal to 0.05. Summary forms and raw data were evaluated.

The following table lists the percent differences (%Ds) that exceeded 25% and the qualifiers added to the data:

Compound	%D	Associated Samples	Qualifiers
2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol	29.2 29.3 36.9	All samples	J/UJ

#### 5. SURROGATE COMPOUND RECOVERY

Surrogate compound recovery analysis was performed according to method requirements and results met specified control limits.

BNA: Yes X No\_\_\_

Comments:

Surrogate compounds were added to all samples and blanks. All recoveries were within QC limits; however, the surrogate recoveries for sample H1BW5 were considered diluted below the calibration and no qualification was necessary. Summary forms and raw data were evaluated.



#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

BNA: Yes\_\_\_ No\_X NA\_\_

Comments: MS/MSD analyses were performed on soil sample H1BX3 for low level and soil sample H1BX0 for medium level. Summary forms and raw data were evaluated.

The following table lists the results for the MS/MSD analyses that were outside

The following table lists the results for the MS/MSD analyses that were outside criteria; however, no action is taken based solely on MS/MSD:

Sample	Percent Recovery		RPD	Control Limits		Qualifiers	
		MS	MSD		% R	RPD	
H1BX0	Pentachlorophenol	16		93	17-109	47	None

#### 7. INTERNAL STANDARD AREA

Internal standard area analysis was performed according to method requirements and results met specified control limits.

BNA: Yes X No\_\_\_

Comments: The internal standard retention times did not vary more than  $\pm$  30 seconds from the

retention time of the associated 12-hour calibration standards. Internal standard area counts did not vary by more than a factor of two from the associated 12-hour calibration standard for the sample analyses. Summary forms and raw data were

evaluated.

#### 8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and results met specified control limits.

BNA: Yes X No\_\_\_

Comments: Method blanks were reported per matrix, per concentration level, and for each

extraction batch. Target compounds were not detected in the semivolatile blank.

Summary forms and raw data were evaluated.



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One tentatively identified compound (TIC) was reported in method blank SBLKTG at a retention time of 15.32 minutes. This TIC was reported in samples H1BW9 and H1BX0 and the TIC was qualified as rejected (R).

#### 9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met contract requirements.

BNA: Yes X No No

Comments:

Sample relative retention times (RRTs) were within  $\pm$  0.06 RRT units of the standard RRT. Ions present in the standard mass spectrum at a relative intensity greater than 10% were present in the sample spectrum. Relative intensities of ions agreed within  $\pm$  20% between standard and sample spectra.

Samples H1BW6, H1BW9, and H1BX0 were analyzed as medium level soil samples. The remaining samples were analyzed at dilutions.

#### 10. Additional Comments or Problems/Resolutions Not Addressed Above

BNA: Yes\_\_\_ No\_X\_

Comments: None.



## Method Number OLM04.3

Revision \_\_\_\_\_

## Organic Data Completeness Checklist PEST/PCB

#### Quality Control Summary Package

- P Surrogate Recovery Summary (Form II)
- P MS/MSD Summary (Form III)
- P Method Blank Summary (Form IV)

#### Sample Data Package

- P Holding Times (CLASS Sample Traffic Reports/UOS Chain-of-Custody)
- P Organic Analysis Data Sheets (Form I)
- P GC/EC Chromatogram(s)
- Pesticide Identification Summary for Single Component Analytes (Form X-1) for positive results only
- Pesticide Identification Summary for Multicomponent Analytes (Form X-2) for positive results only

#### Standards Data Package

- NR Current List of Laboratory/Instrument Detection Limits
- Pesticide Initial Calibration of Single Component Analytes (Form VI-1,2)
- P Pesticide Initial Calibration of Multicomponent Analytes (Form VI-3)
- P Pesticide Analyte Resolution Summary (Form VI-4)
- P Pesticide Calibration Verification Summary (Form VII-1,2)
- P Pesticide Analytical Sequence (Form VIII)
- P Pesticide Florisil Cartridge Check (Form IX-1)
- P Pesticide GPC Calibration (Form IX-2)
- P Pesticide/Aroclor Standard Chromatograms and Data System Printouts

#### Reagent Blank Data

- P Organic Analysis Data Sheets (Form I)
- P GC/EC Chromatograms and Data System Printouts

#### Matrix Spike/Matrix Spike Duplicate Data

- P Organic Analysis Data Sheets
- P GC/EC Chromatograms and Data System Printouts

#### KEY:

P = Provided in original data package

R = Provided as resubmission

NP = Not provided in original data package or as resubmission

NR = Not required

NA = Not applicable to this data package or analysis

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### 1. DELIVERABLES

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All deliverables	s were present as s	specified in the sub	contract.	
PEST/AROCLO	OR: Yes_X	No		
Comments:	None.			
HOLDING TI	MES AND PRES	SERVATION CR	ITERIA	
All method hol	ding times were n	net.		
PEST/AROCL	OR: Yes <u>X</u>	_ No		
Comments:	The samples wer	e extracted within	ten days from samp	ole receipt at the laboratory.
PEST/AROCL	OR: Yes <u>X</u>	_ No		
Comments:	extracts were as received within	nalyzed within 40 the temperature cr	days of extraction riteria of $4 \pm 2$ °C.	n sample collection and all a. The sample cooler was No shipping or receiving forms, and raw data were
INSTRUMEN	T CALIBRATIO	ONS: INITIAL A	ND CONTINUIN	G STANDARDS
The multi-com	ponent target com	pound analyses wer	e performed accord	ling to method requirements:
PEST/AROCI	OR: Yes_X	No		
Comments:	None.			
	ent calibrations v	-	cording to requiren	nents and met the specified
PEST/AROCI	OR: Yes	No_X_		
Comments:	initial calibratio for methoxychlo taken because u	ns were all within to or on the first colum op to two %RSDs p	he 20% criteria, wit nn was outside crite	individual pesticides in the hone exception. The %RSD ria at 20.4%. No action was eed 20% if the %RSD is less ted.

Continuing instrument calibrations were performed according to requirements and met specified control limits listed in the functional guidelines.

PEST/AROCLOR:

Yes X

No

Comments:

Continuing calibration standards were analyzed at the required frequency. The percent differences (%Ds) between the calculated amounts and the true amounts were less than or equal to 25% for the individual standards that bracketed the samples. Summary forms and raw data were evaluated.

#### 4. SURROGATE COMPOUND RECOVERY

Surrogate compound recovery analysis was performed according to method requirements and results met specified control limits.

PEST/AROCLOR:

Yes X

No\_\_\_

Comments:

Surrogate compounds were added to all samples and blanks. The surrogate percent recoveries (%Rs) were all within the QC limits. Summary forms and raw data were evaluated.

#### 5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses were performed according to method requirements and results met recommended recovery and precision limits.

PEST/AROCLOR:

Yes\_\_\_

No\_X\_

NA\_\_

Comments:

MS/MSD analyses were performed on soil sample H1BX3. Summary forms and

raw data were evaluated.

The following table lists the results for the MS/MSD analyses that were outside criteria; however, no action is taken based solely on MS/MSD:

Sample	Compound	Percent Recovery		Control Limits		Limits	Qualifiers
		MS	MSD		% R	RPD	
нівх0	gamma-BHC	0		NA	46-127		None
	Heptachlor	0		NA	35-130		
	Aldrin	9		154	34-132	43	_



Sample	Compound	Perc Reco		RPD	Control	Limits	Qualifiers
		MS	MSD	l	% R	RPD	
H1BX0	Endrin	0		NA	42-139		None
	4,4'-DDT	-39	154	336	23-134	50	
	Dieldrin			43		38	

Although the MS recoveries were extremely low, no qualification was taken due to the 10x dilution of the sample and because the MSD recoveries were within criteria, with the exception of 4,4'-DDT, which was elevated in the MSD.

#### 6. PESTICIDE / AROCLOR INSTRUMENT PERFORMANCE

The pesticide resolution check mixture analysis was performed according to method requirements and results met recommended recovery limits.

PEST/AROCLOR: Yes X No Comments: All resolution criteria were met.

The pesticide performance evaluation mixture (PEM) analysis was performed according to method requirements and results met recommended recovery limits.

PEST/AROCLOR: Yes\_X No\_\_

Comments: PEM analyses were analyzed at the required frequency. Summary forms and raw data were evaluated. The percent differences (%Ds) between the calculated

amounts and the true amounts were less than or equal to 25%.

The breakdowns of 4,4'-DDT and Endrin were less than 20% and the combined breakdown was less than 30%.

PEST/AROCLOR: Yes X No\_\_

Comments: All breakdown criteria were met.



4:

The decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCMX) retention time shifts were within the specified control limits.

PEST/AROCLOR:

Yes X

No\_\_\_

Comments:

All retention time shift criteria for this data package were met, for all undiluted

analyses.

#### 7. PESTICIDE CLEANUP CHECKS

The florisil cartridge lot check analysis was performed according to requirements and all spike compounds were within the specified quality control limits.

PEST/AROCLOR:

Yes X

No

Comments:

All recoveries were within 80-120%.

The gel permeation chromatography (GPC) check was performed according to requirements and all spike compounds were within the specified quality control limits.

PEST/AROCLOR:

Yes\_X\_

No\_\_\_ NA\_\_\_

Comments:

All recoveries were within 80-110%...

#### 8. LABORATORY BLANK ANALYSIS RESULTS

The laboratory blank analysis was performed according to method requirements and met specified control limits.

PEST/AROCLOR:

Yes\_X\_

No\_\_\_

Comments:

Method blanks were reported per matrix, per concentration level, and for each extraction batch. Additionally, instrument blanks were analyzed. Contamination was not detected in the method blank or instrument blanks. Summary forms and raw data were evaluated.

### 9. SAMPLE RESULTS

The sample results were reviewed and all compound identifications were acceptable and met method requirements.

PEST/AROCLOR:

Yes\_X\_

No\_\_\_

Comments:

No problems with the identification of the sample results were found. All retention

times were met for the detected results.



All results were reported from a 10x dilution.

Various detected results were flagged "P" by the laboratory indicating the %Ds between the results quantitated on each column exceeded 25%. Results were reported as a positive result based on the retention time windows even though the %Ds between columns exceeded 25%. The detected results flagged "P" by the laboratory were qualified as estimated (J) in all samples.

PEST/AROCLOR:	Yes	No_X_
---------------	-----	-------

Comments: None.

Z.

#### ORGANIC DATA QUALITY ASSURANCE REVIEW

#### **Region VIII**

### DATA QUALIFIER DEFINITIONS

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality.

#### GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R Reported value is "rejected." Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- J The associated numerical value is an estimated quantity because the Quality Control criteria were not met.
- U J The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound was not detected.
- N J Estimated value of a tentatively identified compound. (Identified with a CAS number.) ORGANICS analysis only.
- U The material was analyzed for, but was not detected above the level of the associated value.

  The associated value is either the sample quantitation limit or the sample detection limit.

EPA SAMPLE NO.

H1BW5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-01

Sample wt/vol: 6.4(g/mL) G

Lab File ID: LX698

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 20

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane	10	Ū	U
74-87-3	Chloromethane	10	ਚ	<u> —</u> -Г
75-01-4	Vinyl Chloride	10	Ü	<del></del>
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	ਚ	<del></del>
75-69-4	Trichlorofluoromethane	10	Ti Ti	<del></del> ]
75-35-4	1,1-Dichloroethene	10	U	j
	1,1,2-Trichloro-1,2,2-trifluoroethane	<u> </u>		
76-13-1		10	Ū	
67-64-1	Acetone	3	J	Ψ
75-15-0	Carbon Disulfide	10	ַ ַ ַ ַ ַ ַ	
79-20-9	Methyl Acetate	10	Ū	
75-09-2	Methylene Chloride	15	В	
156-60-5	trans-1,2-Dichloroethene	10	Ū	——— I
1634-04-4	tert-Butyl Methyl Ether	10	Ū	
75-34-3	1,1-Dichloroethane	10	Ū	
156-59-2	cis-1,2-Dichloroethene	10	Ū	
78-93-3	2-Butanone	10	Ū	UT
67-66-3	Chloroform	10 ·	U	
71-55-6	1,1,1-Trichloroethane	10	Ū	
110-82-7	Cyclohexane	10	Ü	<del></del>
56-23-5	Carbon Tetrachloride	10	U	· ·
71-43-2	Benzene	10	Ŭ	
107-06-2	1,2-Dichloroethane	10	Ū	

EPA SAMPLE NO.

H1BW5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-01

Sample wt/vol: 6.4(g/mL) G

Lab File ID: LX698

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 20

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

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	10	U	
	10	Ū	
4-Methyl-2-Pentanone	10	Ū	
Toluene	10	Ū	i
trans-1,3-Dichloropropene	10	Ū	
1,1,2-Trichloroethane	10	Ū	<b>-</b> -
Tetrachloroethene	10	Ū	
2-Hexanone	10	Ū	b
Dibromochloromethane	10	Ū	—1
1,2-Dibromoethane	10	Ū	<del></del>
Chlorobenzene	10	Ū	
Ethylbenzene	10	U	_
Xylene (Total)	10	Ū	
Styrene	10	Ū	<del></del> )
Bromoform	10	Ū	
Isopropylbenzene	10	Ū	
	10	Ū	
1,3-Dichlorobenzene	10	Ū	
	10	Ū	
1,2-Dichlorobenzene		Ū	<del></del>
		Ū	<del></del> -
	10	Ü	7/7
	trans-1,3-Dichloropropene  1,1,2-Trichloroethane  Tetrachloroethene  2-Hexanone  Dibromochloromethane  1,2-Dibromoethane  Chlorobenzene  Ethylbenzene  Xylene (Total)  Styrene  Bromoform  Isopropylbenzene  1,1,2,2-Tetrachloroethane  1,3-Dichlorobenzene  1,4-Dichlorobenzene	Methylcyclohexane       10         1,2-Dichloropropane       10         Bromodichloromethane       10         cis-1,3-Dichloropropene       10         4-Methyl-2-Pentanone       10         Toluene       10         trans-1,3-Dichloropropene       10         1,1,2-Trichloroethane       10         Tetrachloroethene       10         2-Hexanone       10         Dibromochloromethane       10         1,2-Dibromoethane       10         Chlorobenzene       10         Ethylbenzene       10         Xylene (Total)       10         Styrene       10         Bromoform       10         1,1,2,2-Tetrachloroethane       10         1,3-Dichlorobenzene       10         1,4-Dichlorobenzene       10         1,2-Dichlorobenzene       10         1,2-Dichlorobenzene       10         1,2-Dibromo-3-chloropropane       10	Methylcyclohexane       10       U         1,2-Dichloropropane       10       U         Bromodichloromethane       10       U         cis-1,3-Dichloropropene       10       U         4-Methyl-2-Pentanone       10       U         Toluene       10       U         trans-1,3-Dichloropropene       10       U         1,1,2-Trichloroethane       10       U         2-Hexanone       10       U         Dibromochloromethane       10       U         1,2-Dibromoethane       10       U         Chlorobenzene       10       U         Ethylbenzene       10       U         Xylene (Total)       10       U         Styrene       10       U         Bromoform       10       U         Isoproylbenzene       10       U         1,1,2,2-Tetrachloroethane       10       U         1,4-Dichlorobenzene       10       U         1,4-Dichlorobenzene       10       U         1,2-Dichlorobenzene       10       U         1,2-Dibromo-3-chloropropane       10       U

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.
i —		

T.ah	Name ·	CETMIC	CORP

Contract: 68-W-03-018

H1BW5	**

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-01

Sample wt/vol:

6.4 (g/mL) G

Lab File ID: LX698

Level: (low/med)

Date Received: 10/30/04

% Moisture: not dec. 20

LOW

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		======		=====
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3.			···· · · · · · · · · · · · · · · · · ·	
4.				
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FORM I VOA-TIC

EPA SAMPLE NO.

H1BW6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-02

Sample wt/vol: 6.4(g/mL) G

Lab File ID: LX699

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 26

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

			_
Dichlorodifluoromethane	11	ΨΨ	J
Chloromethane	11	Ü	
Vinyl Chloride	11	Ū	
Bromomethane	11	Ū	
Chloroethane	11	Ū	
	11	U	
	11	Ū	
1,1,2-Trichloro-1,2,2-trifluoroethane	11	Ū	
Acetone	3	J	)
Carbon Disulfide	11	Ü	
Methyl Acetate	11	U	_
	15	BUJ	
	11	U	
	11	U	
	11	U	
	11	Ü	
	11	T U	)
	11	Ū	
1,1,1-Trichloroethane	11	U	
Cyclohexane	11	<u>u</u>	
Carbon Tetrachloride	11	U	
Benzene	11	Ū	
1,2-Dichloroethane	11	Ū	
	Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene 1,1,2-Trichloro-1,2,2-trifluoroethane Acetone Carbon Disulfide Methyl Acetate Methylene Chloride trans-1,2-Dichloroethene tert-Butyl Methyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane Carbon Tetrachloride Benzene	Chloromethane       11         Vinyl Chloride       11         Bromomethane       11         Chloroethane       11         Trichlorofluoromethane       11         1,1-Dichloroethene       11         1,1,2-Trichloro-1,2,2-trifluoroethane       11         Acetone       3         Carbon Disulfide       11         Methyl Acetate       11         Methylene Chloride       15         trans-1,2-Dichloroethene       11         tert-Butyl Methyl Ether       11         1,1-Dichloroethane       11         cis-1,2-Dichloroethene       11         2-Butanone       11         Chloroform       11         1,1,1-Trichloroethane       11         Cyclohexane       11         Carbon Tetrachloride       11         Benzene       11	Chloromethane       11       U         Vinyl Chloride       11       U         Bromomethane       11       U         Chloroethane       11       U         Trichlorofluoromethane       11       U         1,1-Dichloroethene       11       U         1,1,2-Trichloro-1,2,2-trifluoroethane       11       U         Acetone       3       J         Carbon Disulfide       11       U         Methyl Acetate       11       U         Methylene Chloride       15       B       ✓ J         trans-1,2-Dichloroethene       11       U         tert-Butyl Methyl Ether       11       U         1,1-Dichloroethane       11       U         cis-1,2-Dichloroethene       11       U         2-Butanone       11       U         Chloroform       11       U         Cyclohexane       11       U         Carbon Tetrachloride       11       U         Benzene       11       U

EPA SAMPLE NO.

5		
H1BW6		
	•	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-02

Sample wt/vol: 6.4 (g/mL) G

Lab File ID: LX699

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 26

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

	11	U	
	11	U	
1,2-Dichloropropane	11	Ū	
Bromodichloromethane	11	U	`
cis-1,3-Dichloropropene	11	Ŭ	
4-Methyl-2-Pentanone	11	Ū	· į
Toluene	11	Ū	1
trans-1,3-Dichloropropene	11	Ü	1
1,1,2-Trichloroethane	11	Ū	1
Tetrachloroethene	11	Ū	·
2-Hexanone	11	Ŭ	UT
Dibromochloromethane	11	Ū	<u> </u>
1,2-Dibromoethane	11	Ū	-
Chlorobenzene	11	Ū	-
Ethylbenzene	11	Ū	- 1
Xylene (Total)	11	Ū	-
Styrene	11	Ū	-
Bromoform	11	Ū	-
Isopropylbenzene	11	Ū	-
1,1,2,2-Tetrachloroethane	11	u	-
1,3-Dichlorobenzene	11	ប	-
1,4-Dichlorobenzene	11	Ū	-
1,2-Dichlorobenzene	11	Ū	-
1,2-Dibromo-3-chloropropane	11	Ū	ر [٦
1,2,4-Trichlorobenzene	11	Ū	<b>=</b> ひ5
	cis-1,3-Dichloropropene  4-Methyl-2-Pentanone Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene Ethylbenzene Xylene (Total) Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dibromo-3-chloropropane	Methylcyclohexane       11         1,2-Dichloropropane       11         Bromodichloromethane       11         cis-1,3-Dichloropropene       11         4-Methyl-2-Pentanone       11         Toluene       11         trans-1,3-Dichloropropene       11         1,1,2-Trichloroethane       11         Tetrachloroethene       11         2-Hexanone       11         Dibromochloromethane       11         1,2-Dibromoethane       11         Ethylbenzene       11         Xylene (Total)       11         Styrene       11         Bromoform       11         Isopropylbenzene       11         1,2,2-Tetrachloroethane       11         1,3-Dichlorobenzene       11         1,4-Dichlorobenzene       11         1,2-Dichlorobenzene       11         1,2-Dichlorobenzene       11         1,2-Dibromo-3-chloropropane       11	Methylcyclohexane       11       U         1,2-Dichloropropane       11       U         Bromodichloromethane       11       U         cis-1,3-Dichloropropene       11       U         4-Methyl-2-Pentanone       11       U         Toluene       11       U         trans-1,3-Dichloropropene       11       U         1,1,2-Trichloroethane       11       U         Tetrachloroethane       11       U         2-Hexanone       11       U         Dibromochloromethane       11       U         Chlorobenzene       11       U         Chlorobenzene       11       U         Ethylbenzene       11       U         Xylene (Total)       11       U         Styrene       11       U         Bromoform       11       U         Isopropylbenzene       11       U         1,1,2,2-Tetrachloroethane       11       U         1,3-Dichlorobenzene       11       U         1,4-Dichlorobenzene       11       U         1,2-Dichlorobenzene       11       U         1,2-Dichlorobenzene       11       U

#### 1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
EPA	SAMPLE	NO.

		111111111111111111111111111111111111111	1521111125	00.11 0011-0	H1BW6
Lab Name:	CEIMIC CORP		Contract:	68-W-03-018	
Lab Code:	CEIMIC Cas	e No.: 33461	SAS No.:	SDG No.:	H1BW5

Matrix: (soil/water) SOIL Lab Sample ID: 041207-02

Sample wt/vol: 6.4 (g/mL) G Lab File ID: LX699

Level: (low/med) LOW Date Received: 10/30/04

% Moisture: not dec. 26 Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 0

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OLMO4.3

EPA SAMPLE NO.

H1BW7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-03

Sample wt/vol: 6.4(g/mL) G

Lab Code: CEIMIC Case No.: 33461 SAS No.:

Lab File ID: LX700

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 23

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

75-71-8	Dichlorodifluoromethane	10	υ	_ūp
74-87-3	Chloromethane	10	Ū	
75-01-4	Vinyl Chloride	10	Ū	
74-83-9	Bromomethane	10	Ū	<b>—</b>
75-00-3	Chloroethane	10	Ū	
75-69-4	Trichlorofluoromethane	6	J	
75-35-4	1,1-Dichloroethene	10	Ū	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ŭ	
67-64-1	Acetone	3	J	<u> </u>
75-15-0	Carbon Disulfide	10	Ū	
79-20-9	Methyl Acetate	_10	Ū	
75-09-2		10 03 9	JB	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	tert-Butyl Methyl Ether	10	Ū	
75-34-3		10	Ū	
156-59-2	cis-1,2-Dichloroethene	10	Ū	_ _
78-93-3	2-Butanone	10	U	-U
67-66-3	Chloroform	10	Ū	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	Ū	
56-23-5	Carbon Tetrachloride	10	บ	
71-43-2	Benzene	10	u	
107-06-2	1,2-Dichloroethane	10	Ū	<b>-</b> -

EPA SAMPLE NO.

H1BW7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-03

Sample wt/vol: 6.4(g/mL) G Lab File ID: LX700

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 23

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

79-01 <b>-</b> 6	Trichloroethene	10	U	{
108-87-2	Methylcyclohexane	10	Ū	
78-87-5	1,2-Dichloropropane	10	Ū	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	ับ	
108-10-1	4-Methyl-2-Pentanone	10	บ	
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	Ū	
79-00-5	1,1,2-Trichloroethane	10	Ū	
127-18-4	Tetrachloroethene	10	Ū	
591-78-6	2-Hexanone	10	Ū	D
124-48-1	Dibromochloromethane	10	Ū	
106-93-4	1,2-Dibromoethane	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	Ū	
1330-20-7	Xylene (Total)	10	Ū	
100-42-5	Styrene	10	Ū	
75-25-2	Bromoform	10	Ū	
98-82-8	Isopropylbenzene	10	Ū	
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū	
541-73-1	1,3-Dichlorobenzene	10	Ū	
106-46-7	1,4-Dichlorobenzene	10	Ū	
95-50-1	1,2-Dichlorobenzene	10	Ū	
96-12-8		10	Ū	
120-82-1	1,2,4-Trichlorobenzene	10	U	——————————————————————————————————————

#### 1F

EPA SAMPLE NO.

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BW7 11 14 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-03

Sample wt/vol: 6.4 (g/mL) G

Lab Code: CEIMIC

Lab File ID: LX700

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: not dec. 23

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_ (uL)

Number TICs found: 0

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======	==========	=====
			<u> </u>	
2.		· · · · · · · · · · · · · · · · · · ·		ļ
3.				<u> </u>
4.				<del> </del>
5.				
6.	<del> </del>			<u> </u>
7.	<del></del>			<b> </b>
8. 9.	<del> </del>	<u> </u>	<u> </u>	<u> </u>
10.	<u> </u>	<u></u>		<b></b>
11.	<del></del>	<del> </del>	<del>                                     </del>	<del> </del>
12.	<del></del>			<del> </del>
13.				<del></del>
14.				<del>                                     </del>
15.	<del>                                     </del>			<del> </del> '
16.		<del> </del>	<del> </del>	
17.		<del> </del>		<del> </del>
18.		<del>                                     </del>	<del> </del>	<del> </del>
19.	<del> </del>			<del> </del>
20.		<del>                                     </del>	<del> </del>	<del>                                     </del>
21.	<del> </del>		<del> </del>	<del> </del>
22.		<del> </del>	<del> </del>	<del> </del>
23.	<del>                                     </del>	<del> </del>	<del>  · ·</del>	<del>  .                                     </del>
24.	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del> </del>
25.	<del>                                     </del>	<del> </del>	<del> </del>	<del>  .                                   </del>
26.				<del>                                     </del>
27.			<del> </del>	<del>                                     </del>
28.	<del> </del>	<u> </u>	<del>                                     </del>	<del> </del>
29.		-		<del>                                     </del>
30.		1		<del>                                     </del>

FORM I VOA-TIC

EPA SAMPLE NO.

H1BW8

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-04

Sample wt/vol:

7.1(g/mL) G

Lab File ID: LX701

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 19

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

75-71-8 Dichlorodifluoromethane 10 U	
74 07 3 1 61	T
74-87-3 Chloromethane 10 U	, ,
75-01-4 Vinyl Chloride 10 U	J
74-83-9 Bromomethane 10 U	J
75-00-3 Chloroethane 10 U	J
75-69-4 Trichlorofluoromethane 4 J	ī
75-35-4 1,1-Dichloroethene 10 U	J
76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane 10 U	<del>,                                    </del>
67-64-1 Acetone 2 J	<del>, 5</del>
75-15-0 Carbon Disulfide 10 U	J
79-20-9 Methyl Acetate 10 U	<del>,                                    </del>
75-09-2 Methylene Chloride 10 E	3 0 3
156-60-5 trans-1,2-Dichloroethene 10 U	J
1634-04-4 tert-Butyl Methyl Ether 10 U	J .
75-34-3 1,1-Dichloroethane 10 U	<del>J</del>
156-59-2 cis-1,2-Dichloroethene 10 U	J
78-93-3 2-Butanone 10 U	<u>לוט</u> ד
67-66-3 Chloroform 10 t	J
71-55-6 1,1,1-Trichloroethane 10 t	J
110-82-7 Cyclohexane 10 U	J
56-23-5 Carbon Tetrachloride 10 U	J
71-43-2 Benzene 10 t	J
107-06-2 1,2-Dichloroethane 10 [	J

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-04

Sample wt/vol: 7.1(g/mL) G

Lab File ID: LX701

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 19

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

	Trichloroethene	10	U
	Methylcyclohexane	10	ַ
	1,2-Dichloropropane	10	U
	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	Ū
	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	Ū
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	<u>י</u>
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	U

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#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H1BW8	
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL Lab Sample ID: 041207-04

Sample wt/vol: 7.1 (g/mL) G Lab File ID: LX701

Level: (low/med) LOW Date Received: 10/30/04

% Moisture: not dec. 19 Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

\_\_\_\_

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	T			
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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8.			<del> </del>	
9.	<del></del>		<del> </del>	<del> </del>
10.			<del></del>	
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18.			<u> </u>	
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23.		<del> </del>	ļ	<u></u>
24.		<del> </del>	ļ	ļ <u>.                                 </u>
25.		<del> </del>	<del> </del>	ļ
26.			<del> </del>	<del> </del>
27.		-	<del> </del>	<u> </u>
28.		<del> </del>		
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30.		<u> </u>	1	1

FORM I VOA-TIC

EPA SAMPLE NO.

H1BW9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol: 5.5(g/mL) G

Lab File ID: LX702

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 14

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

CAS NO.

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: \_\_\_\_(uL)

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

75-71-8	Dichlorodifluoromethane	11	Ū	15
74-87-3	Chloromethane	11	บ	<del></del> -Y 1
75-01-4	Vinyl Chloride	11	Ü	<del></del> }
	Bromomethane			<del></del>
74-83-9		11	Ŭ	
75-00-3	Chloroethane	11	Ŭ	\
75-69-4	Trichlorofluoromethane	2	J_	
75-35-4	1,1-Dichloroethene	11	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	Ū	
67-64-1	Acetone	11	Ū	
75-15-0	Carbon Disulfide	11	U	
79-20-9	Methyl Acetate	11	Ü	—-  <u> </u>
75-09-2	Methylene Chloride	13	В	UT
156-60-5	trans-1,2-Dichloroethene	11	Ū	<u> </u>
1634-04-4	tert-Butyl Methyl Ether	11	Ū	
75-34-3	1,1-Dichloroethane	11	Ū	
156-59-2	cis-1,2-Dichloroethene	11	Ū	
78-93-3	2-Butanone	11	Ū	
67-66-3	Chloroform	11	Ū	
71-55-6	1,1,1-Trichloroethane	11	Ū	
110-82-7	Cyclohexane	11	Ū	
56-23-5	Carbon Tetrachloride	11	Ū	
71-43-2	Benzene	11	Ū	i
107-06-2	1,2-Dichloroethane	11	U	

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FORM I VOA-1

EPA SAMPLE NO.

H1BW9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol: 5.5(g/mL) G

Lab File ID: LX702

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 14

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

79-01 <b>-</b> 6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	Ū
75-27-4	Bromodichloromethane	11	Ū
10061-01-5	cis-1,3-Dichloropropene	11	Ū
108-10-1	4-Methyl-2-Pentanone	11	Ū
108-88-3	Toluene	11	Ū
10061-02-6	trans-1,3-Dichloropropene	11	Ü
79-00-5	1,1,2-Trichloroethane	11	Ū
127-18-4	Tetrachloroethene	11	Ü
591-78-6	2-Hexanone	11	Ū ψ
124-48-1	Dibromochloromethane	11	Ū
106-93-4	1,2-Dibromoethane	11	Ü
108-90-7	Chlorobenzene	11	Ū
100-41-4	Ethylbenzene	11	Ū
1330-20-7	Xylene (Total)	11	Ü
100-42-5	Styrene	11	Ü
75-25-2	Bromoform	11	Ū
98-82-8	Isopropylbenzene	11	Ū
79-34-5	1,1,2,2-Tetrachloroethane	11	Ū
541-73-1	1,3-Dichlorobenzene	11	Ü
106-46-7		11	Ü
95-50-1		11	Ū
96-12-8	1,2-Dibromo-3-chloropropane	11	Ū
120-82-1	1,2,4-Trichlorobenzene	11	U
1			

#### 1F

EPA SAMPLE NO.

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol:

5.5 (g/mL) G

LOW

Lab File ID: LX702

Level: (low/med)

Date Received: 10/30/04

Date Analyzed: 11/02/04

% Moisture: not dec. 14

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				=====
2.				
3.				
4.				
5.				
6.				
7.		<u> </u>		
8.				
9.	·			
10.				
11.				
12.				<u> </u>
13.	<del></del>	<u> </u>		<u> </u>
14.				
16.				<del></del>
17.			ļ	
18.		<u> </u>		
19.		<del>                                     </del>		<del> </del>
20.	<del> </del>	<del> </del>	<del> -</del>	<del> </del>
21.	· · · · · · · · · · · · · · · · · · ·	<del> </del>	<del> </del>	
22.		<u> </u>		<del></del>
23.		<u> </u>		<del>                                     </del>
24.		1		<u> </u>
25.		1		· · ·
26.				1
27.				:
28.				
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30.				

FORM I VOA-TIC OLM04.3

EPA SAMPLE NO.

H1BX0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-06

Sample wt/vol: 7.2(g/mL) G

CAS NO.

Lab File ID: LX703

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 17

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

75-71 <b>-</b> 8	Dichlorodifluoromethane	10	UV
74-87-3	Chloromethane	10	Ū
75-01-4	Vinyl Chloride	10	Ū
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	Ū
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	1	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	5	JB 10 U
156-60-5	trans-1,2-Dichloroethene	10	ן ט
1634-04-4	tert-Butyl Methyl Ether	10	Ū :
75-34-3	1,1-Dichloroethane	10	Ü
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	U UD
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	Ū
· ————————			

SAS No.:

EPA SAMPLE NO.

H1BX0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-06

Sample wt/vol:

CAS NO.

Lab Code: CEIMIC

7.2(g/mL) G

Case No.: 33461

Lab File ID: LX703

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 17

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

COMPOUND

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U_
108-10-1	4-Methyl-2-Pentanone	10	<u></u> ט
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	Ŭ
591-78-6	2-Hexanone	10	U U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ŭ
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	ַ ע
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	[ ซ
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	Ŭ
95-50-1	1,2-Dichlorobenzene	10	U _
96-12-8	1,2-Dibromo-3-chloropropane	10	Ŭ
120-82-1	1,2,4-Trichlorobenzene	10	U

EPA	SAMPLE	NO.

	TENTATIVELY IDENTIFIED COMPOUNDS	H1BX0
Lab Name: CEIMIC CORP	Contract: 68-W-03-018	

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Lab Sample ID: 041207-06 Matrix: (soil/water) SOIL

Lab File ID: LX703 Sample wt/vol: 7.2 (g/mL) G

Date Received: 10/30/04 Level: (low/med) LOW

% Moisture: not dec. 17 Date Analyzed: 11/02/04

Dilution Factor: 1.0 GC Column: RTX-624 ID: 0.25 (mm)

Soil Aliquot Volume: \_\_\_\_(uL) Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1.	· · · · · · · · · · · · · · · · · · ·			
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EPA SAMPLE NO.

H1BX1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol: 7.5(g/mL) G

Lab File ID: LX704

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 19

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

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EPA SAMPLE NO.

H1BX1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol: 7.5(g/mL) G

Lab File ID: LX704

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 19

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	Ŭ	_
108-87-2	Methylcyclohexane	10	Ŭ	_]
78-87-5	1,2-Dichloropropane	10	Ū	_
75-27-4	Bromodichloromethane	10	Ū	_
10061-01-5	cis-1,3-Dichloropropene	10	Ū	_
108-10-1	4-Methyl-2-Pentanone	10	Ū	_
108-88-3	Toluene	10	Ü	-
10061-02-6	trans-1,3-Dichloropropene	10	U	_ i
79-00-5	1,1,2-Trichloroethane	10	Ū	_
127-18-4	Tetrachloroethene	10	Ū	_
591-78-6	2-Hexanone	10	Ü	ひげ
124-48-1	Dibromochloromethane	10	Ū	_
106-93-4	1,2-Dibromoethane	10	Ü	_
108-90-7	Chlorobenzene	10	Ū	
100-41-4	Ethylbenzene	10	Ŭ	_
1330-20-7	Xylene (Total)	10	Ū	_
100-42-5	Styrene	10	Ū	_
75-25-2	Bromoform	10	Ū	_
98-82-8	Isopropylbenzene	10	Ŭ	_
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
541-73-1	1,3-Dichlorobenzene	10	Ŭ	
106-46-7	1,4-Dichlorobenzene	10	Ŭ	
95-50-1		10	U	
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū	ر ا⊤
120-82-1	1,2,4-Trichlorobenzene	10	Ū	UJ

TENTATIVELY IDENTIFIED COMPOUNDS

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H1BX1

EPA SAMPLE NO.

Lab Name:	CEIMIC	CORP
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Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol:

7.5 (g/mL) G

Lab File ID: LX704

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: not dec. 19

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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12. 13.				<b></b>
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15.		<del> </del>		<del> </del>
16.				<del> </del>
17.			<del></del>	<del>                                     </del>
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EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-08

Sample wt/vol: 6.9(g/mL) G

Lab File ID: LX705

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 13

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

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156-59-2 cis-1,2-Dichloroethene 10	Ū
	U U
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) '	Ū
	Ū
56-23-5 Carbon Tetrachloride 10	Ū
	Ū
107-06-2 1,2-Dichloroethane 10	U

EPA SAMPLE NO.

H1BX2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-08

Sample wt/vol: 6.9(g/mL) G

Lab File ID: LX705

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 13

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	Ū	<u> </u>
108-87-2	Methylcyclohexane	10	Ū	
78-87-5	1,2-Dichloropropane	10	Ū	
75-27-4	Bromodichloromethane	10	Ū	
10061-01-5	cis-1,3-Dichloropropene	10	Ū	
108-10-1	4-Methyl-2-Pentanone	10	Ū	_
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	Ū	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	: را
124-48-1	Dibromochloromethane	10	Ū	
106-93-4	1,2-Dibromoethane	10	Ū	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
1330-20-7	Xylene (Total)	10	U	
100-42-5	Styrene	10	Ū	
75-25-2	Bromoform	10	Ū	
98-82-8	Isopropylbenzene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
541-73-1	1,3-Dichlorobenzene	10	Ū	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū	
120-82-1	1,2,4-Trichlorobenzene	10	U	

# 1F

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

H1BX2
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-08

Sample wt/vol:

6.9 (g/mL) G

Lab File ID: LX705

Level: (low/med)

Date Received: 10/30/04

% Moisture: not dec. 13

Number TICs found: 0

LOW

Date Analyzed: 11/02/04

GC Column: RTX-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		=======	=======================================	=====
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9.	<del></del>			
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12.		<del> </del>		
13.				
14.		<del>                                      </del>		
15.		1		
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18.	V-100			
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20.				
21.				<b> </b>
22.	<del></del>	1	<u> </u>	<del></del>
24.		+		
25.		<del>                                     </del>		
26.	<del></del>	1	<u> </u>	
27.	· · · · · · · · · · · · · · · · · · ·	<del> </del>		<del>                                     </del>
28.		<del>                                     </del>	<u> </u>	
29.				
30.				

EPA SAMPLE NO.

H1BX3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

Sample wt/vol: 4.5(g/mL) G

Lab File ID: LX706

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 27

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3       Chloromethane       15       U         75-01-4       Vinyl Chloride       15       U         74-83-9       Bromomethane       15       U         75-00-3       Chloroethane       15       U         75-69-4       Trichlorofluoromethane       15       U         75-35-4       1,1-Dichloroethene       15       U         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB /5         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U					_
75-01-4       Vinyl Chloride       15       U         74-83-9       Bromomethane       15       U         75-00-3       Chloroethane       15       U         75-69-4       Trichlorofluoromethane       15       U         75-35-4       1,1-Dichloroethene       15       U         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       15         156-60-5       trans-1,2-Dichloroethene       15       U         75-34-3       1,1-Dichloroethane       15       U         75-34-3       1,1-Dichloroethane       15       U         78-93-3       2-Butanone       15       U	75-71-8	Dichlorodifluoromethane	15	Ū	
74-83-9       Bromomethane       15       U         75-00-3       Chloroethane       15       U         75-69-4       Trichlorofluoromethane       15       U         75-35-4       1,1-Dichloroethene       15       U         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       15         156-60-5       trans-1,2-Dichloroethene       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	74-87-3		15	Ū	
75-00-3       Chloroethane       15       U         75-69-4       Trichlorofluoromethane       15       U         75-35-4       1,1-Dichloroethene       15       U         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       JS         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U			15	Ū	
75-69-4       Trichlorofluoromethane       15       U         75-35-4       1,1-Dichloroethene       15       U         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB 15       J         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	74-83-9		15	Ū	
75-35-4       1,1-Dichloroethene       15       U         76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       JS         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	75-00-3		15	Ū	
76-13-1       1,1,2-Trichloro-1,2,2-trifluoroethane       15       U         67-64-1       Acetone       15       U         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB 15       U         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	75-69-4		15	Ū	
67-64-1       Acetone       15       U       J         75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       JS         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	75-35-4		15	U	_
75-15-0       Carbon Disulfide       15       U         79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       IS         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	Ū	
79-20-9       Methyl Acetate       15       U         75-09-2       Methylene Chloride       6       JB       IS         156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	67-64-1		15	U	しか
75-09-2       Methylene Chloride       6       JB       15       JS       <	75-15-0		15	U	
156-60-5       trans-1,2-Dichloroethene       15       U         1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	79-20-9	Methyl Acetate	15	U	
1634-04-4       tert-Butyl Methyl Ether       15       U         75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	75-09-2		6	JB	730
75-34-3       1,1-Dichloroethane       15       U         156-59-2       cis-1,2-Dichloroethene       15       U         78-93-3       2-Butanone       15       U	156-60-5	trans-1,2-Dichloroethene	15	U	
156-59-2 cis-1,2-Dichloroethene 15 U 78-93-3 2-Butanone 15 U			15	Ū	
78-93-3 2-Butanone 15 U			15	Ū	
	156-59-2	cis-1,2-Dichloroethene	15	U	— i .
67-66-3   Chloroform 15   U	78-93-3		15	U	
	67-66-3	Chloroform	15.	Ū	
71-55-6 1,1,1-Trichloroethane 15 U	71-55-6		15	U	
110-82-7 Cyclohexane 15 U	110-82-7		15	Ū	
56-23-5 Carbon Tetrachloride 15 U	56-23-5	Carbon Tetrachloride	15	Ü	
71-43-2 Benzene 15 U	71-43-2	Benzene	15	Ū	_
107-06-2 1,2-Dichloroethane 15 U	107-06-2	1,2-Dichloroethane	15	Ŭ	

EPA SAMPLE NO.

H1BX3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

Sample wt/vol: 4.5(g/mL) G

Lab File ID: LX706

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 27

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: \_\_\_\_(uL)

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

·			T ++	<del></del> 1
79-01-6	Trichloroethene	15	U	<u> </u>
108-87-2	Methylcyclohexane	15	U	1
78-87-5	1,2-Dichloropropane	15	Ū	
75-27-4	Bromodichloromethane	15	Ū	_
10061-01-5	cis-1,3-Dichloropropene	15	Ū	_
108-10-1	4-Methyl-2-Pentanone	15	Ū	_
108-88-3	Toluene	15	Ū	<b>-</b>
10061-02-6	trans-1,3-Dichloropropene	15	Ū	_
79-00-5	1,1,2-Trichloroethane	_ 15	Ū	
127-18-4	Tetrachloroethene	15	U	_  _
591-78-6	2-Hexanone	15	Ū	UT
124-48-1	Dibromochloromethane	15	Ū	_
106-93-4	1,2-Dibromoethane	15	U	_
108-90-7	Chlorobenzene	15	U	_
100-41-4	Ethylbenzene	15	Ū	_
1330-20-7	Xylene (Total)	15	Ū	
100-42-5	Styrene	1.5	Ū	
75-25-2	Bromoform	15	Ū	
98-82-8	Isopropylbenzene	15	Ū	
79-34-5	1,1,2,2-Tetrachloroethane	15	U	
541-73-1	1,3-Dichlorobenzene	15	U	<del></del>
106-46-7	1,4-Dichlorobenzene	15	Ū	
95-50-1	1,2-Dichlorobenzene	15	ט	
96-12-8	1,2-Dibromo-3-chloropropane	15	Ū	<del>-</del> -
120-82-1	1,2,4-Trichlorobenzene	15	U	J

FORM I VOA-2

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	H1BX3
Contract: 68-W-03-018	

Lab	Name:	CEIMIC	CORP
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Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

LOW

Sample wt/vol: 4.5 (g/mL) G Lab File ID: LX706

% Moisture: not dec. 27

29.

Level: (low/med)

Date Received: 10/30/04

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Number TICs found: 0

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

RT CAS NUMBER COMPOUND NAME EST. CONC. Q \* <u>9.</u> 10. 11. 12. <u>13.</u> 14. 15. 16. 18. <u> 19.</u> 20. 21. 22. 23. 24. 25. 26. 27. 28,

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-10

Sample wt/vol: 6.1(g/mL) G

Lab File ID: LX707

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 16

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

75-71-8	Dichlorodifluoromethane	10	Ū	-UT
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl Chloride	10	Ū	<del></del>
74-83-9	Bromomethane	10	U	_
75-00-3	Chloroethane	10	Ū	— <sub> </sub>
75-69-4	Trichlorofluoromethane	2	J	_
75-35-4	1,1-Dichloroethene	10	Ū	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	_   _
67-64-1	Acetone	10	Ū	UT
75-15-0	Carbon Disulfide	10	Ū	
79-20-9	Methyl Acetate	10	Ū	.
75-09-2	Methylene Chloride	5	JB (	のい
156-60-5	trans-1,2-Dichloroethene	10	Ū	
1634-04-4	tert-Butyl Methyl Ether	10	Ū	<u> </u>
75-34-3	1,1-Dichloroethane	10	บ	<del></del> -i
156-59-2	cis-1,2-Dichloroethene	10	Ū	ー   <i> </i> _
78-93-3	2-Butanone	10	Ū	TJ5
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	Ū	_
56-23-5	Carbon Tetrachloride	10	U	_
71-43-2	Benzene	10	Ū	_
107-06-2	1,2-Dichloroethane	10	U	_

FORM I VOA-1

EPA SAMPLE NO.

H1BX4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-10

Sample wt/vol: 6.1(g/mL) G

Lab Code: CEIMIC Case No.: 33461 SAS No.:

Lab File ID: LX707

Level: (low/med) LOW

Date Received: 10/30/04

% Moisture: not dec. 16

Date Analyzed: 11/02/04

GC Column: RTX-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

79-01-6	Trichloroethene	10	U	j
108-87-2	Methylcyclohexane	10	U	_
78-87-5	1,2-Dichloropropane	10	Ŭ	_
75-27-4	Bromodichloromethane	10	Ū	_
10061-01-5	cis-1,3-Dichloropropene	10	Ŭ	_
108-10-1	4-Methyl-2-Pentanone	10	Ū	
108-88-3	Toluene	10	U	_
10061-02-6	trans-1,3-Dichloropropene	10	Ū	- <sub> </sub>
79-00-5	1,1,2-Trichloroethane	10	Ū	<b>-</b>
127-18-4	Tetrachloroethene	10	Ū	_  _
591-78-6	2-Hexanone	10	Ū	マリフ
124-48-1	Dibromochloromethane	10	Ū	_
106-93-4	1,2-Dibromoethane	10	Ū	_
108-90-7	Chlorobenzene	10	Ū	_
100-41-4	Ethylbenzene	10	Ū	_
1330-20-7	Xylene (Total)	10	Ū	_
100-42-5	Styrene	10	U	_
75-25-2	Bromoform	10	U	— j
98-82-8	Isopropylbenzene	10	U	_
79-34-5	1,1,2,2-Tetrachloroethane	10	Ü	_
541-73-1	1,3-Dichlorobenzene	10	Ŭ	_
106-46-7	1,4-Dichlorobenzene	10	Ū	_
95-50-1		10	U	
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū	<b>-</b>
120-82-1	1,2,4-Trichlorobenzene	10	Ū	つけ

FORM I VOA-2

#### 1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	NO
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TENTATIVELY IDENTIFIED COMPOUNDS H1BX4 Lab Name: CEIMIC CORP Contract: 68-W-03-018

Case No.: 33461 SAS No.: SDG No.: H1BW5 Lab Code: CEIMIC

Matrix: (soil/water) SOIL Lab Sample ID: 041207-10

Lab File ID: LX707 Sample wt/vol: 6.1 (g/mL) G

Date Received: 10/30/04 ... Level: (low/med) LOW

Date Analyzed: 11/02/04 % Moisture: not dec. 16

Dilution Factor: 1.0 GC Column: RTX-624 ID: 0.25 (mm)

Soil Aliquot Volume: Soil Extract Volume: (uL) (uL)

> CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	=======================================	======	==========	=====
2.				
3.				
4.				
5.				
6.				·
7.				
8.				
9.				
10.				
11.				
12.				L
13.		<b></b>	<del> </del>	<b></b>
14.				<u> </u>
15.				
16. 17.	<del> </del>	<del></del>		<del>}</del>
18.	<u> </u>	<del></del>	<del> </del>	
19.			<del> </del>	<del> </del>
20.	<u> </u>		<del>                                     </del>	<del> </del>
21.	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>
$\frac{21}{22}$ .			<del> </del>	<del> </del>
23.	<u> </u>	<del>                                     </del>	<del> </del>	<del> </del>
24.	7	<del>                                     </del>		<del> </del>
25.	<u> </u>			<del>                                     </del>
26.			† · · · · · · · · · · · · · · · · · · ·	<del> </del>
27.			<del>                                     </del>	· · ·
28.			<del> </del>	
29.				
30.				T:

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-01

Sample wt/vol:

30.1(q/mL) G

Lab File ID: JN180

Level:

(low/med) LOW Date Received: 10/30/04

% Moisture: 20

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 15.0

GPC Cleanup:

(Y/N) Y

pH: 8.5

Extraction: (Type) SONC

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

100-52-7	Benzaldehyde	6200	U
108-95-2	Phenol	6200	Ū
111-44-4	bis(2-Chloroethyl)Ether	6200	Ū
95-57-8	2-Chlorophenol	6200	Ū
95-48-7	2-Methylphenol	6200	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	6200	Ū
98-86-2	Acetophenone	6200	Ū
106-44-5	4-Methylphenol	6200	ט
621-64-7	N-Nitroso-di-n-propylamine	6200	บ
67-72-1	Hexachloroethane	6200	Ū
98-95-3	Nitrobenzene	6200	Ū
78-59-1	Isophorone	6200	Ū
88-75-5	2-Nitrophenol	6200	Ū
105-67-9	2,4-Dimethylphenol	6200	Ū
111-91-1	bis(2-Chloroethoxy)methane	6200	Ū
120-83-2	2,4-Dichlorophenol	6200	Ū
91-20-3	Naphthalene	6200	Ū
106-47-8	4-Chloroaniline	6200	Ū
87-68-3	Hexachlorobutadiene	6200	U
105-60-2	Caprolactam	6200	Ū
59-50-7	4-Chloro-3-Methylphenol	6200	Ū
91-57-6	2-Methylnaphthalene	680	Ĵ
77-47-4	Hexachlorocyclopentadiene	6200	ט ט
88-06-2	2,4,6-Trichlorophenol	6200	ן ט
95-95-4	2,4,5-Trichlorophenol	16000	Ū
92-52-4	1,1'-Biphenyl	6200	Ū
91-58-7	2-Chloronaphthalene	6200	Ū
88-74-4	2-Nitroaniline	16000	Ū
131-11-3	Dimethylphthalate	6200	Ū
606-20-2	2,6-Dinitrotoluene	6200	Ū.
208-96-8	Acenaphthylene	6200	Ū
99-09-2	3-Nitroaniline	16000	Ū
83-32-9	Acenaphthene	6200	Ū

EPA SAMPLE NO.

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-01

Sample wt/vol:

30.1(g/mL) G

Lab File ID: JN180

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 20

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (址)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 15.0

GPC Cleanup:

(Y/N) Y

pH: 8.5 Extraction:

(Type) SONC

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol	16000	U (
100-02-7	4-Nitrophenol	16000	<u>U</u> (
132-64-9	Dibenzofuran	6200	Ū
121-14-2	2,4-Dinitrotoluene	6200	ับ
84-66-2	Diethylphthalate	6200	Ū
86-73-7	Fluorene	6200	ט
7005-72-3	4-Chlorophenyl-phenylether	6200	Ū
100-01-6	4-Nitroaniline	16000	ט
534-52-1	4,6-Dinitro-2-methylphenol	16000	U
86-30-6	N-nitrosodiphenylamine (1)	6200	Ū
101-55-3	4-Bromophenyl-phenylether	6200	Ū
118-74-1	Hexachlorobenzene	6200	ט
1912-24-9	Atrazine	6200	Ū
87-86-5	Pentachlorophenol	16000	Ū
85-01-8	Phenanthrene	1000	J
120-12-7	Anthracene	6200	Ū
86-74-8	Carbazole	6200	Ū
84-74-2	Di-n-butylphthalate	760	J
206-44-0	Fluoranthene	1400	J
129-00-0	Pyrene	1500	J
85-68-7	Butylbenzylphthalate	1900	J
91-94-1	3,3'-Dichlorobenzidine	6200	Ū
56-55-3	Benzo (a) anthracene	840	J
218-01-9	Chrysene	1000	J
117-81-7	bis(2-Ethylhexyl)phthalate	48000	
117-84-0	Di-n-octylphthalate	6200	Ū
205-99-2	Benzo(b)fluoranthene	830	J
207-08-9	Benzo(k)fluoranthene	770	J
50-32-8	Benzo (a) pyrene	770	J
193-39-5	Indeno(1,2,3-cd)pyrene	6200	Ū
53-70-3	Dibenzo(a,h)anthracene	6200	Ū
191-24-2	Benzo(g,h,i)perylene	1100	J

(1) - Cannot be separated from Diphenylamine

H1BW5

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-01

Sample wt/vol:

Lab Code: CEIMIC

Lab File ID: JN180

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 20

Decanted: (Y/N) N

30.1 (g/mL) G

Date Extracted:11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 15.0

GPC Cleanup: (Y/N) Y

pH: 8.5

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 16

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
		   =======	======================================	=====
1.	UNKNOWN	7.79	1200	J
2. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.38	3300	
3.	UNKNOWN	9.51	1400	
4. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	10.34	2800	
5. 2131-41-1	NAPHTHALENE, 1,4,5-TRIMETHYL	10.52	2000	NJ
6. 483-78-3	NAPHTHALENE, 1,6-DIMETHYL-4-	10.95	3600	NJ
7.	UNKNOWN	11.45	2400	J
8.	UNKNOWN FATTY ACID	12.03	1300	J
9.	UNKNOWN	12.34	2200	
10.	UNKNOWN	12.76	2000	
11.	UNKNOWN	13.75	7100	
12.	UNKNOWN	17.10	5300	
13.	UNKNOWN	18.53	4200	
14.	UNKNOWN	18.97	6000	J
15.	UNKNOWN	19.55	12000	
16.	UNKNOWN	21.53	8200	J
17.				
18.				
19.				
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23.		[		
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25.				<u> </u>
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## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-02

Sample wt/vol:

1.1(g/mL) G

Lab File ID: JN186

Level:

(low/med)

Date Received: 10/30/04

% Moisture: 26

Decanted: (Y/N)N

Date Extracted: 11/08/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH: 8.3

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

100-52-7	Benzaldehyde	12000	U I
108-95-2	Phenol	12000	<del>U</del>
111-44-4	bis(2-Chloroethyl)Ether	12000	Ū
95-57-8	2-Chlorophenol	12000	Ū
95-48-7	2-Methylphenol	12000	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	12000	Ū
98-86-2	Acetophenone	12000	Ū
106-44-5	4-Methylphenol	12000	U
621-64-7	N-Nitroso-di-n-propylamine	12000	Ū
67-72-1	Hexachloroethane	12000	Ū
98-95-3	Nitrobenzene	12000	U
78-59-1	Isophorone	12000	U
88-75-5	2-Nitrophenol	12000	Ū
105-67-9	2,4-Dimethylphenol	12000	Ū
111-91-1	bis(2-Chloroethoxy)methane	12000	Ü
120-83-2	2,4-Dichlorophenol	12000	U
91-20-3	Naphthalene	12000	U
106-47-8	4-Chloroaniline	12000	Ū
87-68-3	Hexachlorobutadiene	12000	Ü
105-60-2	Caprolactam	12000	U
59-50-7	4-Chloro-3-Methylphenol	12000	<u> </u>
91-57-6	2-Methylnaphthalene	12000	Ü
77-47-4	Hexachlorocyclopentadiene	12000	U U
88-06-2	2,4,6-Trichlorophenol	12000	Ü
95-95-4	2,4,5-Trichlorophenol	31000	U
92-52-4	1,1'-Biphenyl	12000	U
91-58-7	2-Chloronaphthalene	12000	U
88-74-4	2-Nitroaniline	31000	Ū
131-11-3	Dimethylphthalate	12000	Ū
606-20-2	2,6-Dinitrotoluene	12000	U
208-96-8	Acenaphthylene	12000	Ŭ
99-09-2	3-Nitroaniline	31000	U
83-32-9	Acenaphthene	12000	U

### 1D

EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SAS No.: Case No.: 33461

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-02

Sample wt/vol:

Lab Code: CEIMIC

1.1(g/mL) G

Lab File ID: JN186

Level:

(low/med)

Date Received: 10/30/04

% Moisture: 26

Decanted: (Y/N)N

Date Extracted: 11/08/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH: 8.3

Extraction: (Type) SONC

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

- F1 00 F	0.4 Dinikanahanat	21000	
51-28-5	2,4-Dinitrophenol	31000	U Y
100-02-7	4-Nitrophenol	31000	U
132-64-9	Dibenzofuran	12000	U
121-14-2	2,4-Dinitrotoluene	12000	U
84-66-2	Diethylphthalate	12000	Ü
86-73-7	Fluorene	12000	Ü
7005-72-3	4-Chlorophenyl-phenylether	12000	Ū
100-01-6	4-Nitroaniline	31000	ប
534-52-1	4,6-Dinitro-2-methylphenol	31000	U
86-30-6	N-nitrosodiphenylamine (1)	12000	Ü
101-55-3	4-Bromophenyl-phenylether	12000	Ū
118-74-1	Hexachlorobenzene	12000	Ū
1912-24-9	Atrazine	12000	Ū
87-86-5	Pentachlorophenol	31000	Ū
85-01-8	Phenanthrene	1300	J
120-12-7	Anthracene	12000	Ū
86-74-8	Carbazole	12000	Ū
84-74-2	Di-n-butylphthalate	12000	Ū
206-44-0	Fluoranthene	2300	J
129-00-0	Pyrene	2500	J
85-68-7	Butylbenzylphthalate	12000	Ū
91-94-1	3,3'-Dichlorobenzidine	12000	Ū
56-55-3	Benzo (a) anthracene	1400	J
218-01-9	Chrysene	2300	J
117-81-7	bis(2-Ethylhexyl)phthalate	3300	J
117-84-0	Di-n-octylphthalate	12000	Ū
205-99-2	Benzo(b) fluoranthene	2000	J
207-08-9	Benzo(k)fluoranthene	1900	J
50-32-8	Benzo(a)pyrene	2200	J
193-39-5	Indeno(1,2,3-cd)pyrene	2700	J
53-70-3	Dibenzo (a, h) anthracene	12000	Ū
191-24-2	Benzo(g,h,i)perylene	3700	<del>J</del>
1			1

(1) - Cannot be separated from Diphenylamine

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BW6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-02

Sample wt/vol:

1.1 (g/mL) G

Lab File ID: JN186

Level: (low/med)

MED

Date Received: 10/30/04

% Moisture: 26

Decanted: (Y/N) N Date Extracted: 11/08/04

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/10/04

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3

Extraction: (Type) SONC

CONCENTRATION UNITS: (uq/L or uq/Kg) uq/Kg

Number TICs found: 9

RTCAS NUMBER COMPOUND NAME EST. CONC. \_\_\_\_\_\_\_ \_\_\_\_\_\_ 7.42 3900 J UNKNOWN 11.68 3800 J UNKNOWN UNKNOWN 12.02 6300 J 3. 4. 4100 J UNKNOWN 12.24 UNKNOWN 13.75 2500 J 5. 14.95 UNKNOWN 3500 J 6. UNKNOWN AMIDE 15.13 13000 J 8. UNKNOWN 17.35 5100 J 9. UNKNOWN 17.66 11000 J 10. 11. 12. 13. <del>14</del>. 15. 16. 17. 18. <u> 19.</u> 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-03

Sample wt/vol:

30.3(g/mL) G

Lab File ID: JN191

Level: (low/med)

LOW

Date Received: 10/30/04

% Moisture: 23

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(址)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 8.6

Extraction: (Type) SONC

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

100-52-7	Benzaldehyde	2100	Ū
108-95-2	Phenol	2100	Ū
111-44-4	bis(2-Chloroethyl)Ether	2100	Ū
95-57-8	2-Chlorophenol	2100	Ü
95-48-7	2-Methylphenol	2100	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	Ū
98-86-2	Acetophenone	2100	Ū
106-44-5	4-Methylphenol	2100	Ü
621-64-7	N-Nitroso-di-n-propylamine	2100	Ū
67-72-1	Hexachloroethane	2100	Ü
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	Ū
88-75-5	2-Nitrophenol	2100	Ü
105-67-9	2,4-Dimethylphenol	2100	Ū
111-91-1	bis(2-Chloroethoxy)methane	2100	Ū
120-83-2	2,4-Dichlorophenol	2100	Ū
91-20-3	Naphthalene	710	J
106-47-8	4-Chloroaniline	2100	Ū
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	530	J
77-47-4	Hexachlorocyclopentadiene	2100	עט ט
88-06-2	2,4,6-Trichlorophenol	2100	Ŭ
95-95-4	2,4,5-Trichlorophenol	5300	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5300	U
131-11-3	Dimethylphthalate	2100	Ū_
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	Ü
99-09-2	3-Nitroaniline	5300	U
83-32-9	Acenaphthene	1700	J

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-03

Sample wt/vol:

30.3(g/mL) G

Lab File ID: JN191

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 23

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

pH: 8.6

Injection Volume:

2.0 (uL)

Date Analyzed: 11/10/04 Dilution Factor: 5.0

GPC Cleanup:

Extraction: (Type) SONC

CAS NO.

COMPOUND

(Y/N) Y

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol	5300	Ŭ (
100-02-7	4-Nitrophenol	5300	Ū
132-64-9	Dibenzofuran	930	J
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	1600	J
7005-72-3	4-Chlorophenyl-phenylether	2100	Ū
100-01-6	4-Nitroaniline	5300	Ū
534-52-1	4,6-Dinitro-2-methylphenol	5300	U
86-30-6	N-nitrosodiphenylamine (1)	2100	Ū
101-55-3	4-Bromophenyl-phenylether	2100	Ū
118-74-1	Hexachlorobenzene	2100	Ü
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	5300	Ū
85-01-8	Phenanthrene	14000	
120-12-7	Anthracene	3500	
86-74-8	Carbazole	2500	
84-74-2	Di-n-butylphthalate	230	J
206-44-0	Fluoranthene	17000	
129-00-0	Pyrene	16000	
85-68-7	Butylbenzylphthalate	2100	Ū
91-94-1	3,3'-Dichlorobenzidine	2100	Ū
56-55-3	Benzo (a) anthracene	8200	
218-01-9	Chrysene	9700	
117-81-7	bis(2-Ethylhexyl)phthalate	2200	
117-84-0	Di-n-octylphthalate	2100	Ū
205-99-2	Benzo(b)fluoranthene	8400	
207-08-9	Benzo(k)fluoranthene	6000	
50-32-8	Benzo(a)pyrene	8500	
193-39-5	Indeno(1,2,3-cd)pyrene	3700	
53-70-3	Dibenzo (a, h) anthracene	1700	J
191-24-2	Benzo(g,h,i)perylene	3300	

(1) - Cannot be separated from Diphenylamine

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BW7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Sample wt/vol:

Lab Sample ID: 041207-03

30.3 (g/mL) G

Lab File ID: JN191

Level:

(low/med)

Date Received: 10/30/04

% Moisture: 23

Decanted: (Y/N) N

LOW

Date Extracted:11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 8.6

Extraction: (Type) SONC

(ug/L or ug/Kg) ug/Kg

CONCENTRATION UNITS:

Number TICs found: 24

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 90-12-0	NAPHTHALENE, 1-METHYL-	8.56	500	NJ
2. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.37	2300	
3.	UNKNOWN PAH	9.50	520	J
4. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	10.33	2000	
5.	UNKNOWN PAH	10.45	590	
6.	UNKNOWN	11.46	5800	
7.	UNKNOWN	11.52	2100	
8.	UNKNOWN PAH	12.23	910	J
9. 3442-78-2	PYRENE, 2-METHYL-	13.34	1200	
10. 243-17-4	11H-BENZO[B] FLUORENE	13.40	2200	
11. 3442-78-2	PYRENE, 2-METHYL-	13.56	1700	NJ
12. 239-35-0	BENZO[B] NAPHTHO[2,1-D] THIOPH	14.01	2300	
13.	UNKNOWN	14.44	1300	_
14.	UNKNOWN PAH	14.48	5400	
15.	UNKNOWN PAH	14.78	1200	
16. 1705-84-6	TRIPHENYLENE, 2-METHYL-	14.84	1100	
17. 3351-28-8	CHRYSENE, 1-METHYL-	14.91	1300	
18.	UNKNOWN	15.58	2700	
19. 198-55-0	PERYLENE	16.48	3400	
20.	UNKNOWN	18.57	3800	J
21.	UNKNOWN PAH	20.42	1300	
22.	UNKNOWN	21.56	1200	
23.	UNKNOWN	21.96	830	
24.	UNKNOWN	23.31	790	J
25.				
26.				
27.				
28.				
29.				
30.	<u>                                     </u>	L	<u> </u>	<u> </u>

FORM I SV-TIC

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW8

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-04

Sample wt/vol:

Lab Code: CEIMIC

Lab File ID: JN181

30.5(g/mL) G

Case No.: 33461

Level:

(low/med)

Date Received: 10/30/04

% Moisture: 19

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

LOW

Dilution Factor: 9.0

GPC Cleanup:

CAS NO.

(Y/N) Y

COMPOUND

pH: 8.5

Extraction: (Type) SONC

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

100-52-7	Benzaldehyde	500	J
108-95-2	Phenol	3600	Ū
111-44-4	bis(2-Chloroethyl)Ether	3600	Ū
95-57-8	2-Chlorophenol	3600	ט
95-48-7	2-Methylphenol	3600	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	3600	Ū
98-86-2	Acetophenone	1900	J
106-44-5	4-Methylphenol	3600	Ū
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	Ū
98-95-3	Nitrobenzene	3600	Ū
78-59-1	Isophorone	3600	Ū Į
88-75-5	2-Nitrophenol	3600	Ū
105-67-9	2,4-Dimethylphenol	3600	Ū
111-91-1	bis(2-Chloroethoxy)methane	3600	Ū
120-83-2	2,4-Dichlorophenol	3600	Ū
91-20-3	Naphthalene	3600	Ū
106-47-8	4-Chloroaniline	3600	Ū
87-68-3	Hexachlorobutadiene	3600	Ū
105-60-2	Caprolactam	3600	U
59-50-7	4-Chloro-3-Methylphenol	3600	Ū
91-57-6	2-Methylnaphthalene	650	J
77-47-4	Hexachlorocyclopentadiene	3600	U U
88-06-2	2,4,6-Trichlorophenol	3600	Ū
95-95-4	2,4,5-Trichlorophenol	9100	ן די
92-52-4	1,1'-Biphenyl	3600	Ū
91-58-7	2-Chloronaphthalene	3600	Ū
88-74-4	2-Nitroaniline	9100	Ū
131-11-3	Dimethylphthalate	520	J
606-20-2	2,6-Dinitrotoluene	3600	Ū
208-96-8	Acenaphthylene	3600	Ū
99-09-2	3-Nitroaniline	9100	Ū
83-32-9	Acenaphthene	3600	Ū

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW8

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-04

Sample wt/vol:

Lab Code: CEIMIC

30.5(g/mL) G

Case No.: 33461

Lab File ID: JN181

Level:

(low/med) LOW Date Received: 10/30/04

% Moisture: 19

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 9.0

GPC Cleanup:

(Y/N) Y

pH: 8.5

Extraction: (Type) SONC

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

		· · · · · · · · · · · · · · · · · · ·	=
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	3600	Ŭ .
121-14-2	2,4-Dinitrotoluene	3600	Ū
84-66-2	Diethylphthalate	3600	ט
86-73-7	Fluorene	3600	Ū
7005-72-3	4-Chlorophenyl-phenylether	3600	Ū
100-01-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-methylphenol	9100	<u>ט</u>
86-30-6	N-nitrosodiphenylamine (1)	3600	Ū
101-55-3	4-Bromophenyl-phenylether	3600	Ū
118-74-1	Hexachlorobenzene	3600	<u></u>
1912-24-9	Atrazine	3600	Ū
87-86-5	Pentachlorophenol	9100	Ū
85-01-8	Phenanthrene	770	J
120-12-7	Anthracene	3600	Ū
86-74-8	Carbazole	3600	Ū
84-74-2	Di-n-butylphthalate	3600	Ū (
206-44-0	Fluoranthene	1100	J
129-00-0	Pyrene	1500	J
85-68-7	Butylbenzylphthalate	940	J
91-94-1	3,3'-Dichlorobenzidine	3600	Ū
56-55-3	Benzo (a) anthracene	700	J
218-01-9	Chrysene	900	J
117-81-7	bis(2-Ethylhexyl)phthalate	7100	
117-84-0	Di-n-octylphthalate	1900	J
205-99-2	Benzo (b) fluoranthene	760	J
207-08-9	Benzo(k) fluoranthene	640	J
50-32-8	Benzo(a) pyrene	910	J
193-39-5	Indeno (1,2,3-cd) pyrene	1200	J
53-70-3	Dibenzo(a,h)anthracene	3600	Ū
191-24-2	Benzo(g,h,i)perylene	1500	J

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

## 1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BW8

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-04

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: JN181

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 19

Decanted: (Y/N) N

Date Extracted:11/02/04

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 9.0

GPC Cleanup:

(Y/N) Y

pH: 8.5

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================	i	•	=========	====
1	UNKNOWN	6.59	5400	
2.	UNKNOWN	11.45	9500	
3.	UNKNOWN	11.51	1900	
4. 57-10-3	HEXADECANOIC ACID	12.02	4800	
5.	UNKNOWN	13.32	1800	
6.	UNKNOWN	13.40	3900	J
7.	UNKNOWN	15.05	11000	J
8.	UNKNOWN	15.21	1700	J
9.	UNKNOWN	15.34	17000	J
10.	UNKNOWN PHTHALATE	15.51	1400	J !
11.	UNKNOWN	16.00	1700	J
12.	UNKNOWN	16.16		
13.	UNKNOWN	17.35		J
14.	UNKNOWN	17.56	1500	J
15. 36728-72-0	28-NOR-17.BETA.(H)-HOPANE	18.52	1400	NJ
16.	UNKNOWN	18.93		J
17.	UNKNOWN	19.51	2200	J
18.	UNKNOWN	20.35	920	J
19.	UNKNOWN	20.98		
20.				
21.				
22.		<del></del>	†	
23.		<del> </del>		<b></b> -
24.		<del> </del>		<del>                                     </del>
25.		<del> </del>		
26.		<del></del>		<del> </del>
27.		<del> </del>	† · · · · · · · · · · · · · · · · · · ·	<del>                                     </del>
28.		<del> </del>	<del>                                     </del>	<del> </del>
29.		<del> </del>		<del> </del>
30.		<del> </del>	<del>                                     </del>	<del> </del>
1			<del> </del>	ا ـــــا

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol:

1.0(g/mL) G

Lab File ID: JN187

Level: (low/med)

MED

Date Received: 10/30/04

% Moisture: 14

Decanted: (Y/N)N

Date Extracted: 11/08/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(址)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.2

Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

100-52-7	Benzaldehyde	12000	Ū
108-95-2	Phenol	12000	U
111-44-4	bis(2-Chloroethyl)Ether	12000	Ū
95-57-8	2-Chlorophenol	12000	U
95-48-7	2-Methylphenol	12000	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	12000	Ū
98-86-2	Acetophenone	12000	Ū
106-44-5	4-Methylphenol	12000	Ū
621-64-7	N-Nitroso-di-n-propylamine	12000	Ū
67-72-1	Hexachloroethane	12000	Ū
98-95-3	Nitrobenzene	12000	Ū
78-59-1	Isophorone	12000	U
88-75-5	2-Nitrophenol	12000	Ū
105-67-9	2,4-Dimethylphenol	12000	Ū
111-91-1	bis(2-Chloroethoxy)methane	12000	Ū
120-83-2	2,4-Dichlorophenol	12000	Ū
91-20-3	Naphthalene	12000	U
106-47-8	4-Chloroaniline	12000	U
87-68-3	Hexachlorobutadiene	12000	Ū
105-60-2	Caprolactam	12000	Ū
59-50-7	4-Chloro-3-Methylphenol	12000	U
91-57-6	2-Methylnaphthalene	12000	Ū
77-47-4	Hexachlorocyclopentadiene	12000	U V
88-06-2	2,4,6-Trichlorophenol	12000	U
95-95-4	2,4,5-Trichlorophenol	29000	Ū
92-52-4	1,1'-Biphenyl	12000	U
91-58-7	2-Chloronaphthalene	12000	U
88-74-4	2-Nitroaniline	29000	ן ד
131-11-3	Dimethylphthalate	12000	Ū
606-20-2	2,6-Dinitrotoluene	12000	Ū
208-96-8	Acenaphthylene	12000	Ü
99-09-2	3-Nitroaniline	29000	υ
83-32-9	Acenaphthene	12000	Ū

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BW9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol:

1.0(g/mL) G

Lab File ID: JN187

Level:

(low/med)

MED

Date Received: 10/30/04

% Moisture: 14

Decanted: (Y/N)N

Date Extracted: 11/08/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.2

Extraction: (Type) SONC

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

51-28-5	2,4-Dinitrophenol	29000	U
100-02-7	4-Nitrophenol	29000	Ŭ
132-64-9	Dibenzofuran	12000	Ū
121-14-2	2,4-Dinitrotoluene	12000	ט
84-66-2	Diethylphthalate	12000	Ū
86-73-7	Fluorene	12000	Ū
7005-72 <b>-</b> 3	4-Chlorophenyl-phenylether	12000	Ū
100-01-6	4-Nitroaniline	29000	Ū
534-52 <b>-</b> 1	4,6-Dinitro-2-methylphenol	29000	Ū (
86-30-6	N-nitrosodiphenylamine (1)	12000	Ū
101-55-3	4-Bromophenyl-phenylether	12000	Ū
118-74-1	Hexachlorobenzene	12000	Ū
1912-24-9	Atrazine	12000	Ū
87-86-5	Pentachlorophenol	29000	Ŭ
85-01-8	Phenanthrene	2000	J
120-12-7	Anthracene	12000	Ū
86-74-8	Carbazole	12000	Ū
84-74-2	Di-n-butylphthalate	12000	Ū
206-44-0	Fluoranthene	3900	J
129-00-0	Pyrene	4300	J
85-68-7	Butylbenzylphthalate	12000	U
91-94-1	3,3'-Dichlorobenzidine	12000	Ŭ
56-55-3	Benzo (a) anthracene	2100	J
218-01-9	Chrysene	3000	J
117-81-7	bis(2-Ethylhexyl)phthalate	5600	J
117-84-0	Di-n-octylphthalate	12000	Ū
205-99-2	Benzo(b)fluoranthene	2000	J
207-08-9	Benzo(k)fluoranthene	2200	J
50-32-8	Benzo(a)pyrene	3100	J
193-39-5	Indeno(1,2,3-cd)pyrene	3200	J
53-70-3	Dibenzo(a,h)anthracene	12000	Ū
191-24-2	Benzo(g,h,i)perylene	4000	J

(1) - Cannot be separated from Diphenylamine

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BW9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol:

Lab File ID: JN187

Level:

(low/med)

1.0 (g/mL) G

MED

Date Received: 10/30/04

% Moisture: 14

Decanted: (Y/N) N

Date Extracted:11/08/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH: 8.2

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	7.42	2400		
2.	UNKNOWN	11.45	9800		1
3.	UNKNOWN	11.51	3900	J	
4.	UNKNOWN	12.41	2800	J	
5.	UNKNOWN	13.54	3600	J	1
6.	UNKNOWN	13.98	3500		1
7.	UNKNOWN AMIDE	15.14	18000	J	ĺ.
8.	UNKNOWN	15.32	14000		IR
9.	UNKNOWN	15.57	4200	J	1
10.	UNKNOWN	16.89	4600	J	1
11.	UNKNOWN	17.43	3200	J	
12.	UNKNOWN	17.75	5900	J	1
13.	UNKNOWN	18.50	7800	J	
14.	UNKNOWN PAH	19.53	6900	J	
15.					
16.					1
17.					
18.					
19.					1
20.					1
21.					1
22.					Ί
23.					1
24.					1
25.					1
26.					1
27.					1
28.					
29.					1
30.			1	T	

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-06

Sample wt/vol: 1.4(g/mL) G Lab File ID: JN188

Level:

(low/med)

MED

Date Received: 10/30/04

% Moisture: 17

Decanted: (Y/N)N

Date Extracted: 11/08/04

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/10/04

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.8 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

100-52-7 Benzaldehyde 10000 108-95-2 | Phenol 10000 bis(2-Chloroethyl)Ether 111-44-4 10000 Ū 95-57-8 10000 TT 2-Chlorophenol

2-Methylphenol 95-48-7 10000 IJ 2,2'-oxybis(1-Chloropropane) 108-60-1 10000 Ū 98-86-2 Acetophenone 10000 Ū 4-Methylphenol 106-44-5 10000 Ū 621-64-7 N-Nitroso-di-n-propylamine 10000 IJ Hexachloroethane 67-72-1 10000 Ū 98-95-3 Nitrobenzene Ū 10000 78-59-1 Isophorone 10000 Ū 2-Nitrophenol 88-75-5 10000 Ū 105-67-9 2,4-Dimethylphenol 10000 Ħ bis(2-Chloroethoxy)methane 111-91-1 10000 U 120-83-2 2,4-Dichlorophenol 10000 Ū Naphthalene 91-20-3 10000 Ū 4-Chloroaniline 106-47-8 10000 Ū 87-68-3 Hexachlorobutadiene 10000 Ū 105-60-2 Caprolactam 10000 Ū 4-Chloro-3-Methylphenol 59-50-7 10000 Ū 91-57-6 2-Methylnaphthalene 10000 Ū 77-47-4 Hexachlorocyclopentadiene 10000 Ū 2,4,6-Trichlorophenol 88-06-2 10000 Ū 2,4,5-Trichlorophenol 95-95-4 25000 IJ 92-52-4 1,1'-Biphenyl 10000 Ū 2-Chloronaphthalene 91-58-7 10000 Ū 2-Nitroaniline 88-74-4 25000 Ū 131-11-3 Dimethylphthalate 10000 Ū 2,6-Dinitrotoluene 606-20-2 10000 U 208-96-8 Acenaphthylene Ū 10000 99-09-2 3-Nitroaniline 25000 Ū 83-32-9 Acenaphthene 10000

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-06

Sample wt/vol:

1.4(g/mL) G

Lab File ID: JN188

Level:

(low/med) MED

Data Danadara 3

Date Received: 10/30/04

% Moisture: 17

Decanted: (Y/N)N

Date Extracted: 11/08/04

Concentrated Extract Volume:

500 (uL)

Total continue STalliana

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

CAS NO.

(Y/N) Y

COMPOUND

pH: 8.8

Extraction: (Type) SONC

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol	25000	U V
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	Ü
84-66-2	Diethylphthalate	10000	Ū
86-73-7	Fluorene	1400	J
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	25000	Ū
534-52-1	4,6-Dinitro-2-methylphenol	25000	<del>Ŭ</del>
86-30-6	N-nitrosodiphenylamine (1)	10000	Ü
101-55-3	4-Bromophenyl-phenylether	10000	Ū
118-74-1	Hexachlorobenzene	10000	Ū
1912-24-9	Atrazine	10000	Ū
87-86-5	Pentachlorophenol	25000	Ū
85-01-8	Phenanthrene	20000	
120-12-7	Anthracene	5500	J
86-74-8	Carbazole	3200	J
84-74-2	Di-n-butylphthalate	10000	Ü
206-44-0	Fluoranthene	39000	
129-00-0	Pyrene	32000	
85-68-7	Butylbenzylphthalate	10000	Ū
91-94-1	3,3'-Dichlorobenzidine	10000	Ū
56-55-3	Benzo (a) anthracene	18000	
218-01-9	Chrysene	20000	
117-81-7	bis(2-Ethylhexyl)phthalate	4400	J
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	11000	
207-08-9	Benzo(k) fluoranthene	15000	
50-32-8	Benzo(a) pyrene	14000	
193-39-5	Indeno(1,2,3-cd)pyrene	9200	J
53-70-3	Dibenzo(a,h)anthracene	4700	J
191-24-2	Benzo(q,h,i)perylene	8300	J

(1) - Cannot be separated from Diphenylamine

OLMO4.3

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BX0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-06

Sample wt/vol:

1.4 (g/mL) G

MED

Lab File ID: JN188

Level: (low/med)

Date Received: 10/30/04

% Moisture: 17

Decanted: (Y/N) N

Date Extracted:11/08/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH: 8.8

Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 20

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
====================================	UNKNOWN PAH	12.22	4300	=====  .T	
2. 781-43-1	9,10-DIMETHYLANTHRACENE	12.64	3000		
3.	UNKNOWN	12.76	2400		1
4.	UNKNOWN PAH	13.22	2200		ŀ
5. 238-84-6	11H-BENZO [A] FLUORENE	13.33	11000		ł
6. 243-17-4	11H-BENZO [B] FLUORENE	13.40	4200	NJ	1
7.	UNKNOWN	13.63	2100	J	1
8.	UNKNOWN	13.76	2400		}
9.	UNKNOWN	14.01	6900	J	1
10.	UNKNOWN PAH	14.47	5000	J	1
11. 3351-32-4	2-METHYLCHRYSENE	14.83	5400	ŊJ	
12.	UNKNOWN PAH	14.90	3800		1
13.	UNKNOWN AMIDE	15.15	7600	J	١.
14.	UNKNOWN	15.35	10000		R
15. 198-55-0	PERYLENE	16.43	6700	NJ	
16.	UNKNOWN	17.19	3100	J	1
17.	UNKNOWN	17.39	5600	J	1
18.	UNKNOWN	17.77	5400	J	
19.	UNKNOWN	18.52	5700	J	
20.	UNKNOWN	20.36	2000	J	Į.
21.					1
22.					
23.					1
24.		1			1
25.		T			1
26.		T			1
27.					1
28.					
29.					
30.					

## 1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol:

30.0(g/mL) G

Lab File ID: JN182

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 19

Decanted: (Y/N)N

500 (uL)

Date Extracted: 11/02/04

Concentrated Extract Volume:

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

GPC Cleanup:

CAS NO.

(Y/N) Y

COMPOUND

pH: 7.7

Dilution Factor: 5.0

CONCENTRATION UNITS:

Extraction: (Type) SONC

(ug/L or ug/Kg) UG/KG Q

100-52-7	Benzaldehyde	2000	Ŭ
108-95-2	Phenol	2000	Ū
111-44-4	bis(2-Chloroethyl)Ether	2000	Ū
95-57-8	2-Chlorophenol	2000	Ū
95-48-7	2-Methylphenol	2000	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	2000	Ū
98-86-2	Acetophenone	2000	Ū
106-44-5	4-Methylphenol	2000	Ū
621-64-7	N-Nitroso-di-n-propylamine	2000	Ū
67-72-1	Hexachloroethane	2000	Ū
98-95-3	Nitrobenzene	2000	Ū
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	Ū
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	bis(2-Chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	Ū
91-20-3	Naphthalene	2700	
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	Ū
105-60-2	Caprolactam	2000	Ū
59-50-7	4-Chloro-3-Methylphenol	2000	U
91-57-6	2-Methylnaphthalene	3200	
77-47-4	Hexachlorocyclopentadiene	2000	บ บ
88-06-2	2,4,6-Trichlorophenol	2000	Ū
95-95-4	2,4,5-Trichlorophenol	5100	U
92-52-4	1,1'-Biphenyl	440	J
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	5100	Ū
131-11-3	Dimethylphthalate	290	J
606-20-2	2,6-Dinitrotoluene	2000	Ū
208-96-8	Acenaphthylene	2000	Ū
99-09-2	3-Nitroaniline	5100	Ū
83-32-9	Acenaphthene	300	J

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol:

30.0(g/mL) G

Lab File ID: JN182

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 19

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 7.7

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

CAD NO.	Corn Cord	(dg/11 O1 dg/10g/ <u>00/10</u>	~	
51-28-5	2,4-Dinitrophenol	5100	Ū	Tr
100-02-7	4-Nitrophenol	5100	Ū	ال
132-64-9	Dibenzofuran	2000	Ū	_
121-14-2	2,4-Dinitrotoluene	2000	Ū	-1
84-66-2	Diethylphthalate	2000	Ū	_
86-73-7	Fluorene	420	J	—\
7005-72-3	4-Chlorophenyl-phenylether	2000	Ū	— I
100-01-6	4-Nitroaniline	5100	Ū	
534-52-1	4,6-Dinitro-2-methylphenol	5100	Ū	7
86-30-6	N-nitrosodiphenylamine (1)	2000	Ū	
101-55-3	4-Bromophenyl-phenylether	2000	Ū	
118-74-1	Hexachlorobenzene	2000	บ	_
1912-24-9	Atrazine	2000	Ū	
87-86-5	Pentachlorophenol	5100	Ū	
85-01-8	Phenanthrene	1800	J	I
120-12-7	Anthracene	280	J	
86-74-8	Carbazole	2000	U	
84-74-2	Di-n-butylphthalate	2000	Ū	i
206-44-0	Fluoranthene	920	J	_
129-00-0	Pyrene	1200	J	
85-68-7	Butylbenzylphthalate	2000	Ū	— j
91-94-1	3,3'-Dichlorobenzidine	2000	Ū	_
56-55-3	Benzo (a) anthracene	540	J	
218-01-9	Chrysene	820	J	_
117-81-7	bis(2-Ethylhexyl)phthalate	1900	J	
117-84-0	Di-n-octylphthalate	2000	Ū	_
205-99-2	Benzo(b) fluoranthene	500	J	_
207-08-9	Benzo(k)fluoranthene	540	J	
50-32-8	Benzo(a)pyrene	530	J	
193-39-5	Indeno(1,2,3-cd)pyrene	590	J	
53-70-3	Dibenzo(a,h)anthracene	2000	Ū	
191-24-2	Benzo(g,h,i)perylene	750	J	

(1) - Cannot be separated from Diphenylamine

## 1G

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H1BX1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol: 30.0 (g/mL) G

LOW

Lab File ID: JN182

Level:

(low/med)

% Moisture: 19

Date Received: 10/30/04

Decanted: (Y/N) N

Date Extracted:11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 7.7

Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 22

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	6.60	1300	UЛ
2. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	6.91	610	ŊĴ
3.	UNKNOWN PAH	7.21	720	
4. 90-12-0	NAPHTHALENE, 1-METHYL-	8.56	1500	
5. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.24	710	NJ
6. 569-41-5	NAPHTHALENE, 1,8-DIMETHYL-	9.38	2400	NJ
7. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL		890	
8. 483-78-3	NAPHTHALENE, 1,6-DIMETHYL-4-	10.95	590	
9.	UNKNOWN	11.45	720	
10.	UNKNOWN	11.93	470	
11.	UNKNOWN	12.02	730	
12. 613-12-7	ANTHRACENE, 2-METHYL-	12.12	1300	
13. 613-12-7	ANTHRACENE, 2-METHYL-	12.23	970	NJ
14.	UNKNOWN	12.34	590	J
15. 3674-65-5	PHENANTHRENE, 2,3-DIMETHYL-	12.64	1000	NJ
16.	UNKNOWN	14.10	940	J
17.	UNKNOWN	14.81	470	J
18.	UNKNOWN	15.34	490	J
19.	UNKNOWN	18.53	1400	
20.	UNKNOWN	18.93	1300	J
21.	UNKNOWN	19.54	840	J
22.	UNKNOWN	20.38	1100	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL Lab Sample ID: 041207-08

Sample wt/vol: 30.0(g/mL) G Lab File ID: JN192

Level: (low/med) LOW Date Received: 10/30/04

% Moisture: 13 Decanted: (Y/N)N Date Extracted: 11/02/04

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/04

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.8 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q

			_
100-52-7	Benzaldehyde	1900	Ū
108-95-2	Phenol	1900	Ū
111-44-4	bis(2-Chloroethyl)Ether	1900	Ū
95-57-8	2-Chlorophenol	1900	Ū
95-48-7	2-Methylphenol	1900	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	Ū
98-86-2	Acetophenone	1900	Ū
106-44-5	4-Methylphenol	1900	Ū
621-64-7	N-Nitroso-di-n-propylamine	1900	Ū
67-72-1	Hexachloroethane	1900	Ū
98-95-3	Nitrobenzene	1900	Ū
78-59-1	Isophorone	1900	Ū
88-75-5	2-Nitrophenol	1900	Ū
105-67-9	2,4-Dimethylphenol	1900	Ū
111-91-1	bis(2-Chloroethoxy)methane	1900	Ū
120-83-2	2,4-Dichlorophenol	1900	Ū
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	1900	Ū
87-68-3	Hexachlorobutadiene	1900	Ŭ
105-60-2	Caprolactam	1900	Ū
59-50-7	4-Chloro-3-Methylphenol	1900	Ū
91-57-6	2-Methylnaphthalene	500	J
77-47-4	Hexachlorocyclopentadiene	1900	UU
88-06-2	2,4,6-Trichlorophenol	1900	Ū
95-95-4	2,4,5-Trichlorophenol	4800	Ū
92-52-4	1,1'-Biphenyl	1900	Ū
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4800	Ū
131-11-3	Dimethylphthalate	1900	Ū
606-20-2	2,6-Dinitrotoluene	1900	Ū
208-96-8	Acenaphthylene	1900	Ü
99-09-2	3-Nitroaniline	4800	Ū
83-32-9	Acenaphthene	1900	Ü

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-08

Sample wt/vol:

30.0(g/mL) G

Lab File ID: JN192

Level:

(low/med) LOW Date Received: 10/30/04

% Moisture: 13

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 8.8

Extraction: (Type) SONC

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

, <del></del>			
51-28-5	2,4-Dinitrophenol	4800	U U
100-02-7	4-Nitrophenol	4800	U U
132-64-9	Dibenzofuran	1900	Ū
121-14-2	2,4-Dinitrotoluene	1900	Ü
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	Ŭ
100-01-6	4-Nitroaniline	4800	Ū
534-52-1	4,6-Dinitro-2-methylphenol	4800	נט ט
86-30-6	N-nitrosodiphenylamine (1)	1900	Ū
101-55-3	4-Bromophenyl-phenylether	1900	Ū
118-74-1	Hexachlorobenzene	1900	Ū
1912-24-9	Atrazine	1900	Ü
87-86-5	Pentachlorophenol	4800	Ū
85-01-8	Phenanthrene	860	J
120-12-7	Anthracene	280	J
86-74-8	Carbazole	1900	Ū
84-74-2	Di-n-butylphthalate	230	J
206-44-0	Fluoranthene	1400	J
129-00-0	Pyrene	1400	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	Ū
56-55-3	Benzo (a) anthracene	660	J
218-01-9	Chrysene	960	J
117-81-7	bis(2-Ethylhexyl)phthalate	1500	J
117-84-0	Di-n-octylphthalate	1900	Ū
205-99-2	Benzo(b)fluoranthene	890	J
207-08-9	Benzo(k) fluoranthene	770	J
50-32-8	Benzo(a) pyrene	830	J
193-39-5	Indeno(1,2,3-cd)pyrene	320	J
53-70-3	Dibenzo (a, h) anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	Ū

(1) - Cannot be separated from Diphenylamine

### 1G

EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BX2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-08

Sample wt/vol:

30.0 (g/mL) G

LOW

Lab File ID: JN192

Level: (low/med)

% Moisture: 13

Date Received: 10/30/04

Decanted: (Y/N) N

Date Extracted:11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume: 2.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y

8.8 :Hq

Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 18

(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	9.38	2100	
2. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	10.34	1700	
3. 483-78-3	NAPHTHALENE, 1,6-DIMETHYL-4-	10.96	1500	
4.	UNKNOWN	11.46	660	
5.	UNKNOWN	12.35	1400	J
6.	UNKNOWN	12.67	620	J
7.	UNKNOWN	15.40	1800	J
8.	UNKNOWN	15.49	5300	J
9.	UNKNOWN	15.83	4500	J
10.	UNKNOWN	17.16	5400	J
11.	UNKNOWN	17.85	6100	J
12.	UNKNOWN	18.22	2100	Ĵ
13.	UNKNOWN	18.62	6200	J
14.	UNKNOWN	19.05		
15.	UNKNOWN	19.63	2600	1
16.	UNKNOWN	19.74	5600	J
17.	UNKNOWN	20.12	2600	J
18.	UNKNOWN	20.47	1900	J
19.				
20.				
21.				
22.				
23.				
24.				
25.		<u></u>		
26.				
27.				
28.				
29.				
30.		<u> </u>		

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

CONCIACE. 00-W-03-010 [\_

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

Sample wt/vol:

30.5(g/mL) G

Lab File ID: JN183

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 27

Decanted: (Y/N)Y

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (யி)

Date Analyzed: 11/10/04

Injection Volume: 2.0(uL)

0 0 ( 7 )

Dilution Factor: 3.0

GPC Cleanup:

(Y/N) Y

pH: 8.6

Extraction: (Type) SONC

•

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

100-52-7	Benzaldehyde	1300	Ū
108-95-2	Phenol	1300	Ŭ
111-44-4	bis(2-Chloroethyl)Ether	1300	Ū
95-57-8	2-Chlorophenol	1300	Ū
95-48-7	2-Methylphenol	1300	Ū
108-60-1	2,2'-oxybis(1-Chloropropane)	1300	Ū
98-86-2	Acetophenone	1300	<u></u> ט
106-44-5	4-Methylphenol	1300	Ū
621-64-7	N-Nitroso-di-n-propylamine	1300	Ū
67-72-1	Hexachloroethane	1300	Ū
98-95-3	Nitrobenzene	1300	Ū
78-59-1	Isophorone	1300	Ū
88-75-5	2-Nitrophenol	1300	Ū
105-67-9	2,4-Dimethylphenol	1300	Ū
111-91-1	bis(2-Chloroethoxy)methane	1300	Ū
120-83-2	2,4-Dichlorophenol	1300	Ū
91-20-3	Naphthalene	1300	Ū
106-47-8	4-Chloroaniline	1300	Ū
87-68-3	Hexachlorobutadiene	1300	Ū
105-60-2	Caprolactam	1300	Ū
59-50-7	4-Chloro-3-Methylphenol	1300	Ū
91-57-6	2-Methylnaphthalene	160	J
77-47-4	Hexachlorocyclopentadiene	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	Ū
95-95-4	2,4,5-Trichlorophenol	3400	Ū
92-52-4	1,1'-Biphenyl	1300	Ū
91-58-7	2-Chloronaphthalene	1300	Ü
88-74-4	2-Nitroaniline	3400	Ū
131-11-3	Dimethylphthalate	1300	Ū
606-20-2	2,6-Dinitrotoluene	1300	Ū
208-96-8	Acenaphthylene	1300	Ü
99-09-2	3-Nitroaniline	3400	Ü
83-32-9	Acenaphthene	1300	l <del>u</del>

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

Sample wt/vol:

Lab Code: CEIMIC

30.5(g/mL) G

Lab File ID: JN183

Level:

(low/med) LOW

Date Received: 10/30/04

% Moisture: 27

Decanted: (Y/N)Y

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 3.0

GPC Cleanup:

(Y/N) Y

pH: 8.6

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

		<del></del>	-
51-28-5	2,4-Dinitrophenol	3400	Ū (
100-02-7	4-Nitrophenol	3400	Ū (
132-64-9	Dibenzofuran	1300	Ū
121-14-2	2,4-Dinitrotoluene	1300	Ū
84-66-2	Diethylphthalate	1300	Ŭ
86-73-7	Fluorene	1300	Ü
7005-72-3	4-Chlorophenyl-phenylether	1300	Ū
100-01-6	4-Nitroaniline	3400	U
534-52-1	4,6-Dinitro-2-methylphenol	3400	<b>U</b> (
86-30-6	N-nitrosodiphenylamine (1)	1300	Ŭ
101-55-3	4-Bromophenyl-phenylether	1300	Ü
118-74-1	Hexachlorobenzene	1300	Ŭ
1912-24-9	Atrazine	1300	Ū
87-86-5	Pentachlorophenol	3400	Ŭ
85-01-8	Phenanthrene	750	J
120-12-7	Anthracene	1300	Ū
86-74-8	Carbazole	1300	Ū
84-74-2	Di-n-butylphthalate	1200	J
206-44-0	Fluoranthene	850	J
129-00-0	Pyrene	680	J
85-68-7	Butylbenzylphthalate	1400	
91-94-1	3,3'-Dichlorobenzidine	1300	Ū
56-55-3	Benzo (a) anthracene	330	J
218-01-9	Chrysene	540	J
117-81-7	bis(2-Ethylhexyl)phthalate	3000	
117-84-0	Di-n-octylphthalate	1300	Ū
205-99-2	Benzo(b) fluoranthene	370	J
207-08-9	Benzo(k) fluoranthene	290	J
50-32-8	Benzo (a) pyrene	390	J
193-39-5	Indeno(1,2,3-cd)pyrene	280	J
53-70-3	Dibenzo(a,h)anthracene	1300	Ū
191-24-2	Benzo(q,h,i) perylene	420	J

(1) - Cannot be separated from Diphenylamine

### 1G

EPA SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TENTATIVELY IDENTIFIED COMPOUNDS

H1BX3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

Sample wt/vol:

rol: 30.5 (g/mL) G

Lab File ID: JN183

Level:

(low/med)

LOW

Date Received: 10/30/04

% Moisture: 27

Decanted: (Y/N) Y

Date Extracted:11/02/04

Concentrated Extract Volume:

500 (uL)

Data 3------ 12/20/0

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 3.0

GPC Cleanup:

(Y/N) Y

pH: 8.6

Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

Number TICs found: 16

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
	1	======	=======================================	=====
1.	UNKNOWN	7.37	280	J
2.	UNKNOWN	8.76	270	
3.	UNKNOWN	9.37	410	
4. 483-78-3	NAPHTHALENE, 1,6-DIMETHYL-4-	10.95	380	NJ
5. 57-10-3	HEXADECANOIC ACID	12.02	1600	
6.	UNKNOWN	12.70	580	J
7.	UNKNOWN FATTY ACID	12.75	1500	J
8.	UNKNOWN	13.27	1300	J
9.	UNKNOWN	15.14		J
10.	UNKNOWN	15.34	1100	J
11.	UNKNOWN	15.67	400	J
12.	UNKNOWN	15.75	2100	J
13.	UNKNOWN	16.94	1900	J
14.	UNKNOWN	17.37	1900	J
15.	UNKNOWN	18.52	1300	J
16.	UNKNOWN	18.96	360	J
17.				
18.				
19.				
20.				
21.				
22.		I		
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

H1BX4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

LOW

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-10

Sample wt/vol:

30.2(g/mL) G

Lab File ID: JN193

Level:

(low/med)

Date Received: 10/30/04

0 24 1 1 2 2

% Moisture: 16

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 8.7

Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) <u>UG/KG</u> Q

100 50 7	Ponza I dobudo	3000	Ū
100-52-7	Benzaldehyde	2000	
108-95-2	Phenol	2000	Ŭ
111-44-4	bis(2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	Ŭ
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000	Ŭ
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	2000	Ŭ
621-64-7	N-Nitroso-di-n-propylamine	2000	Ŭ
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	Ü
78-59-1	Isophorone	2000	Ü
88-75-5	2-Nitrophenol	2000	Ū
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	bis(2-Chloroethoxy)methane	2000	Ū
120-83-2	2,4-Dichlorophenol	2000	Ū
91-20-3	Naphthalene	2000	Ū
106-47-8	4-Chloroaniline	2000	ן ד
87-68-3	Hexachlorobutadiene	2000	Ū
105-60-2	Caprolactam	2000	Ū
59-50-7	4-Chloro-3-Methylphenol	2000	Ū
91-57-6	2-Methylnaphthalene	2000	Ū
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	4900	Ū
92-52-4	1,1'-Biphenyl	2000	ا ت
91-58-7	2-Chloronaphthalene	2000	Ü
88-74-4	2-Nitroaniline	4900	Ū
131-11-3	Dimethylphthalate	680	<del>J</del>
606-20-2	2,6-Dinitrotoluene	2000	Ū
208-96-8	Acenaphthylene	2000	<del>Ŭ</del>
99-09-2	3-Nitroaniline	4900	<del>- 0</del> - 1
83-32-9	Acenaphthene	2000	<del>"</del>
	1100110110110	2000	∟Ŭ

U1/00/05

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAS No.:

H1BX4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-10

Sample wt/vol:

30.2(g/mL) G

Lab File ID: JN193

Level:

(low/med) LOW

Date Received: 10/30/04

% Moisture: 16

Decanted: (Y/N)N

Date Extracted: 11/02/04

Concentrated Extract Volume:

500 (uL)

Date Analyzed: 11/10/04

Injection Volume:

2.0(uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 8.7

Extraction:

(Type) SONC

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

		<del></del>	-
51-28-5	2,4-Dinitrophenol	4900	U
100-02-7	4-Nitrophenol	4900	Ū
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	Ū
84-66-2	Diethylphthalate	2000	Ū
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	Ū
100-01-6	4-Nitroaniline	4900	Ū
534-52 <b>-</b> 1	4,6-Dinitro-2-methylphenol	4900	υc
86-30-6	N-nitrosodiphenylamine (1)	2000	Ŭ
101-55-3	4-Bromophenyl-phenylether	2000	Ū
118-74-1	Hexachlorobenzene	2000	Ū
1912-24-9	Atrazine	2000	Ū
87-86-5	Pentachlorophenol	4900	Ū
85-01-8	Phenanthrene	620	J
120-12-7	Anthracene	210	J
86-74-8	Carbazole	2000	Ū
84-74-2	Di-n-butylphthalate	250	J
206-44-0	Fluoranthene	1200	Ĵ
129-00-0	Pyrene	1100	J
85-68-7	Butylbenzylphthalate	390	J
91-94-1	3,3'-Dichlorobenzidine	2000	Ŭ
56-55-3	Benzo (a) anthracene	650	J
218-01-9	Chrysene	850	J
117-81-7	bis(2-Ethylhexyl)phthalate	3100	
117-84-0	Di-n-octylphthalate	2000	Ū
205-99-2	Benzo (b) fluoranthene	670	J
207-08-9	Benzo(k) fluoranthene	670	J
50-32-8	Benzo(a) pyrene	630	J
193-39-5	Indeno(1,2,3-cd)pyrene	330	J
53-70-3	Dibenzo(a,h)anthracene	2000	Ū
191-24-2	Benzo(g,h,i)perylene	290	J

(1) - Cannot be separated from Diphenylamine

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H1BX4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-10

Sample wt/vol:

30.2 (g/mL) G

Lab File ID: JN193

Level:

(low/med) LOW

Date Received: 10/30/04

% Moisture: 16

Decanted: (Y/N) N

Date Extracted:11/02/04

Concentrated Extract Volume:

500 (uL)

300 (ui

Date Analyzed: 11/10/04

Injection Volume:

2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup:

(Y/N) Y

pH: 8.7

Extraction: (Type) SONC

(ug/L or ug/Kg) ug/Kg

CONCENTRATION UNITS:

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 569-41-5	NAPHTHALENE, 1,8-DIMETHYL-	9.38	700	1 1
2. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL		580	
3. 483-78-3	NAPHTHALENE, 1,6-DIMETHYL-4-	10.96	830	
4. 55720-40-6	NAPHTHALENE, 2,3,6-TRICHLORO	11.34	560	NJ
5.	UNKNOWN	11.46	5900	
6.	UNKNOWN	11.51	2100	
7. 57-10-3	HEXADECANOIC ACID	12.03	740	
8.	UNKNOWN	12.24	790	
9.	UNKNOWN	12.43	770	
10.	UNKNOWN	12.77	2900	
11.	UNKNOWN PAH	13.35	880	J
12.	UNKNOWN	15.38	1400	
13.	UNKNOWN	16.95		
14.	UNKNOWN	18.57	1700	J
15.				
16.				
17.		Ţ		
18.				
19.				[
20.				
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FORM I SV-TIC

OLM04.3

684

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW5

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL Lab Sample ID: 041207-01

Sample wt/vol: 30.0(g/mL) G Lab File ID:

% Moisture: 20 Decanted: (Y/N) N Date Received: 10/30/04

Extraction: (Type) SONC Date Extracted: 11/02/04

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/08/04

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q

319-84-6	alpha-BHC	21	Ü
319-85-7	beta-BHC	21	Ū
319-86-8	delta-BHC	21	Ū
58-89-9	gamma-BHC (Lindane)	21	ט
76-44-8	Heptachlor	21	Ŭ
309-00-2	Aldrin	21	Ŭ
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	Ū
60-57-1	Dieldrin	41	Ū
72-55-9	4,4'-DDE	41	Ü
72-20-8	Endrin	41	Ū
33213-65-9	Endosulfan II	41	Ū
72-54-8	4,4'-DDD	41	Ū
1031-07-8	Endosulfan sulfate	41	Ū
50-29-3	4,4'-DDT	41	Ū
72-43-5	Methoxychlor	210	Ū
53494-70-5	Endrin ketone	41	U
7421-93-4	Endrin aldehyde	41	Ū
5103-71-9	alpha-Chlordane	21	Ū
5103-74-2	gamma-Chlordane	40	P
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	410	<u> </u>
11104-28-2	Aroclor-1221	840	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	1800	P 1
12672-29-6	Aroclor-1248	410	Ū
11097-69-1	Aroclor-1254	970	
11096-82-5	Aroclor-1260	410	Ū

FORM I PEST

1/20/05

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-02

Sample wt/vol:

30.3(q/mL) G

Lab File ID:

% Moisture: 26 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/08/04

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 8.3

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

		1	<del></del> ,
319-84-6	alpha-BHC 23	U	
319-85-7	beta-BHC 23	U	
319-86-8	delta-BHC 23	U _	
58-89-9	gamma-BHC (Lindane) 23	U	
76-44-8	Heptachlor 23	U	
309-00-2	Aldrin 38	P	ーケ
1024-57-3	Heptachlor epoxide 23	Ū	
959-98-8	Endosulfan I 23	Ū	
60-57-1	Dieldrin 44	Ū	
72-55-9	4,4'-DDE 44	U	
72-20-8	Endrin 44	Ū	
33213-65-9	Endosulfan II 44	Ū	
72-54-8	4,4'-DDD 44	U	
1031-07-8	Endosulfan sulfate 44	U	
50-29-3	4,4'-DDT 44	U	
72-43-5	Methoxychlor 230	Ū	
53494-70-5	Endrin ketone 44	U	
7421-93-4	Endrin aldehyde 53		— (
5103-71-9	alpha-Chlordane 23	U	—
5103-74-2	gamma-Chlordane 28	P	— <sub>t</sub>
8001-35-2	Toxaphene 2300	ับ	
12674-11-2	Aroclor-1016 440	Ū	
11104-28-2	Aroclor-1221 900	U	_
11141-16-5	Aroclor-1232 440	Ū	
53469-21-9	Aroclor-1242 730	P	<b>_</b>
12672-29-6	Aroclor-1248 440	U	
11097-69-1	Aroclor-1254 1100		
11096-82-5	Aroclor-1260 440	U	

### 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-03

Sample wt/vol:

Lab Code: CEIMIC

30.3(g/mL) G

Lab File ID:

% Moisture: 23 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 11/09/04

Injection Volume:

1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup:

(Y/N) Y

pH: 8.6

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

319-84-6	alpha-BHC 22	Ū	1
319-85-7	beta-BHC 37	P	一 <i></i> ブ
319-86-8	delta-BHC 22	Ū	
58-89-9	gamma-BHC (Lindane) 22	Ū	_
76-44-8	Heptachlor 22	Ū	
309-00-2	Aldrin 53	P	ープ
1024-57-3	Heptachlor epoxide 22	U	
959-98-8	Endosulfan I 22	U	_
60-57-1	Dieldrin 42	Ū	
72-55-9	4,4'-DDE 42	ט	
72-20-8	Endrin 42	U	
33213 <b>-</b> 65-9	Endosulfan II 42	Ū	— I
72-54-8	4,4'-DDD 42	U	
1031-07-8	Endosulfan sulfate 42	U	— )
50-29-3	4,4'-DDT 97	P	ーケ
72-43-5	Methoxychlor 220	Ū	_
53494-70-5	Endrin ketone 42	Ū	
7421-93-4	Endrin aldehyde 42	Ū	
5103-71-9	alpha-Chlordane 23		
5103-74-2	gamma-Chlordane 50	P	
8001-35-2	Toxaphene 2200	U	
12674-11-2	Aroclor-1016 420	U	
11104-28-2	Aroclor-1221 860	U	_
11141-16-5	Aroclor-1232 420	Ū	_
53469-21-9	Aroclor-1242 1600	P	D
12672-29-6	Aroclor-1248 420	U	
11097-69-1	Aroclor-1254 1500	P	_p
11096-82-5	Aroclor-1260 420	Ū	—   ·

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW8

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-04

Sample wt/vol:

30.2(g/mL) G

Lab File ID:

% Moisture: 19 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 11/09/04

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup:

(Y/N) Y

pH: 8.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

319-84-6	alpha-BHC	21	Ŭ	ر ا
319-85-7	beta-BHC	27	P	一ケ
319-86-8	delta-BHC	21	Ū	— <u>}</u>
58-89-9	gamma-BHC (Lindane)	21	Ū	_
76-44-8	Heptachlor	21	Ū	_ i
309-00-2	Aldrin	96		- <sub> </sub>
1024-57-3	Heptachlor epoxide	21	Ū	_
959-98-8	Endosulfan I	21	Ū	_
60-57-1	Dieldrin	40	Ŭ	<u> </u>
72-55-9	4,4'-DDE	40	U	_
72-20-8	Endrin	40	Ū	-
33213-65-9	Endosulfan II	40	Ū	_
72-54-8	4,4'-DDD	40	Ū	
1031-07-8	Endosulfan sulfate	40	Ū	<b>一</b> 丨_
50-29-3	4,4'-DDT	80	P	一万
72-43-5	Methoxychlor	210	Ū	<u> </u>
53494-70-5	Endrin ketone	40	U	_
7421-93-4	Endrin aldehyde	67	P	ーゲ
5103-71-9	alpha-Chlordane	21	Ū	_  _
5103-74-2	gamma-Chlordane	47	P	-15
8001-35-2	Toxaphene	2100	Ū	_
12674-11-2	Aroclor-1016	400	Ū	_
11104-28-2	Aroclor-1221	820	Ū	_
11141-16-5	Aroclor-1232	400	U	_ _
53469-21-9	Aroclor-1242	1100	P	—口
12672-29-6	Aroclor-1248	400	Ū	
11097-69-1	Aroclor-1254	1100		<b>-</b>
11096-82-5	Aroclor-1260	400	Ū	_
· · · · · · · · · · · · · · · · · · ·	<del>, , , , , , , , , , , , , , , , , , , </del>			'

### 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BW9

Lab. Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-05

Sample wt/vol:

30.5(g/mL) G

Lab File ID:

% Moisture: 14 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/09/04

Injection Volume:

1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 8.2

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

319-84-6	alpha-BHC 19	U	_
319-85-7	beta-BHC 41	P	_ 1
319-86-8	delta-BHC 19	U	
58-89-9	gamma-BHC (Lindane) 19	Ū	
76-44-8	Heptachlor 19	U	
309-00-2	Aldrin 19	Ū	
1024-57-3	Heptachlor epoxide 19	U	
959-98-8	Endosulfan I 19	Ū	_
60-57-1	Dieldrin 38	Ū	
72-55-9	4,4'-DDE 38	Ū	
72-20-8	Endrin 38	U	
33213-65-9	Endosulfan II 38	Ū	
72-54-8	4,4'-DDD 38	U	_
1031-07-8	Endosulfan sulfate 38	Ū	<b>-</b>
50-29-3	4,4'-DDT 48	P	ーケ
72-43-5	Methoxychlor 190	U	_
53494-70-5	Endrin ketone 38	Ū	
7421-93-4	Endrin aldehyde 54	P	—  T
5103-71-9	alpha-Chlordane 19	U	_
5103-74-2	gamma-Chlordane 54	P	-15
8001-35-2	Toxaphene 1900	Ū	_
12674-11-2	Aroclor-1016 380	U	_
11104-28-2	Aroclor-1221 770	Ū	
11141-16-5	Aroclor-1232 380	U	_ ا
53469-21-9	Aroclor-1242 1300	P	— <sub> </sub> 5
12672-29-6	Aroclor-1248 380	U	— <sub> </sub>
11097-69-1	Aroclor-1254 1300		
1 1109/-09-1	Aroclor-1260 380		

### 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-06

Sample wt/vol:

Lab Code: CEIMIC

30.1(g/mL) G

Lab File ID:

% Moisture: 17 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume:

5000 (uL)

Injection Volume:

1.0(uL)

Date Analyzed: 11/09/04

Dilution Factor: 10.0

GPC Cleanup:

(Y/N) Y

pH: 8.8

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC 20	Ū	
319-85-7	beta-BHC 160		
319-86-8	delta-BHC 20	Ū	
58-89-9	gamma-BHC (Lindane) 20	Ū	
76-44-8	Heptachlor 20		
309-00-2	Aldrin 20	ับ	
1024-57-3	Heptachlor epoxide 28		
959-98-8	Endosulfan I 20	Ū	
60-57-1	Dieldrin 40	Ū	
72-55-9	4,4'~DDE 40	Ū	
72-20-8	Endrin 40	Ū	
33213-65-9	Endosulfan II 40	Ū	
72-54-8	4,4'-DDD 40	U	
1031-07-8	Endosulfan sulfate 40	Ū	
50-29-3	4,4'-DDT 82	P	J
72-43-5	Methoxychlor 200	U	
53494-70-5	Endrin ketone 40		
7421-93-4	Endrin aldehyde 54	P	
5103-71-9	alpha-Chlordane 20		
5103-74-2	gamma-Chlordane 70	P	
8001~35-2	Toxaphene 2000	U	
12674-11-2	Aroclor-1016 400	1 -	_ 1
11104-28-2	Aroclor-1221 800		
11141-16-5	Aroclor-1232 400	U	
53469-21-9	Aroclor-1242 1600	P	7
12672-29-6	Aroclor-1248 400	U	
11097-69-1	Aroclor-1254 1000		
11096-82-5	Aroclor-1260 400	Ū	

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461

SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-07

Sample wt/vol:

30.3(g/mL) G

Lab File ID:

% Moisture: 19 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume:

5000 (uL)

Date Analyzed: 11/09/04

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup:

(Y/N) Y

pH: 7.7

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	21	Ū
319-85-7	beta-BHC	21	Ū
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	Ū
76-44-8	Heptachlor	21	Ū
309-00-2	Aldrin	23	P
1024-57-3	Heptachlor epoxide	21	Ū
959-98-8	Endosulfan I	21	Ū
60-57-1	Dieldrin	40	Ū
72-55-9	4,4'-DDE	40	U
72-20-8	Endrin	40	Ū
33213-65-9	Endosulfan II	40	Ū
72-54-8	4,4'-DDD	40	Ū
1031-07-8	Endosulfan sulfate	40	Ū
50-29-3	4,4'-DDT	40	Ū
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin ketone	40	U
7421-93-4	Endrin aldehyde	40	Ū
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	21	Ū
8001-35-2	Toxaphene	2100	Ū
12674-11-2	Aroclor-1016	400	Ū
11104-28-2	Aroclor-1221	820	Ū
11141-16-5	Aroclor-1232	400	Ū
53469-21-9	Aroclor-1242	450	P
12672-29-6	Aroclor-1248	400	Ū
11097-69-1	Aroclor-1254	490	
11096-82-5	Aroclor-1260	400	Ū
·			

## 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 33461 SAS No.:

SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-08

Sample wt/vol:

30.5(g/mL) G

Lab File ID:

% Moisture: 13 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Concentrated Extract Volume:

5000 (uL)

Date Extracted: 11/02/04

Date Analyzed: 11/09/04

Injection Volume:

1.0(uL)

Dilution Factor: 10.0

GPC Cleanup:

(Y/N) Y

pH: 8.8

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	. 19	Ū	
319-85-7	beta-BHC	22	P	
319-86-8	delta-BHC	19	Ū	-1
58-89-9	gamma-BHC (Lindane)	19	Ū	-
76-44-8	Heptachlor	19	Ū	
309-00-2	Aldrin	26	P	—ts
1024-57-3	Heptachlor epoxide	19	Ū	-
959-98-8	Endosulfan I	19	Ū	
60-57-1	Dieldrin	37	Ū	
72-55-9	4,4'-DDE	37	Ū	
72-20-8	Endrin	37	Ū	
33213-65-9	Endosulfan II	37	Ū	— i
72-54-8	4,4'-DDD	37	Ū	
1031-07-8	Endosulfan sulfate	37	Ū	
50-29-3	4,4'-DDT	37	Ū	-
72-43-5	Methoxychlor	190	Ū	-
53494-70-5	Endrin ketone	37	U	
7421-93-4	Endrin aldehyde	37	Ü	_
5103-71-9	alpha-Chlordane	19	U	
5103-74-2	gamma-Chlordane	23	P	_1
8001-35-2	Toxaphene	1900	U	_
12674-11-2	Aroclor-1016	370	Ū	_
11104-28-2	Aroclor-1221	760	Ū	_
11141-16-5	Aroclor-1232	370	U	
53469-21-9	Aroclor-1242	490	P	[j
12672-29-6	Aroclor-1248	370	U	
11097-69-1	Aroclor-1254	430		— i
11096-82-5	Aroclor-1260	370	Ū	— )

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Case No.: 33461 SAS No.: SDG No.: H1BW5

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-09

Sample wt/vol:

Lab Code: CEIMIC

30.2(g/mL) G

Lab File ID:

% Moisture: 27 Decanted: (Y/N) Y

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/09/04

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup:

CAS NO.

(Y/N) Y

COMPOUND

pH: 8.6

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

310 04 6	aluba Dud	_	77	<del></del> 1
319-84-6	alpha-BHC 2		Ü	
319-85-7	beta-BHC 2		Ū	
319-86-8	delta-BHC 2		Ŭ	
58-89-9	gamma-BHC (Lindane) 2		U	
76-44-8	Heptachlor 2		Ŭ	
309-00-2	Aldrin 3			
1024-57-3	Heptachlor epoxide 2		U	
959-98-8	Endosulfan I 2	3	Ū	
60-57-1	Dieldrin 4	5	Ū	I
72-55-9	4,4'-DDE 4	5	Ū	
72-20-8	Endrin 4	5	Ū	
33213-65-9	Endosulfan II 4	5	Ū	
72-54-8	4,4'-DDD 4	5	Ū	_
1031-07-8	Endosulfan sulfate 4	5	Ū	
50-29-3	4,4'-DDT 9	9	P	— 15
72-43-5	Methoxychlor 23	0	Ū	
53494-70-5	Endrin ketone 4	5	Ū	
7421-93-4	Endrin aldehyde 4	5	Ū	
5103-71-9		3	Ū	
5103-74-2	gamma-Chlordane 2	6	P	— b
8001-35-2	Toxaphene 230	0	Ū	
12674-11-2	Aroclor-1016 45	0	Ū	<u> </u>
11104-28-2	Aroclor-1221 91	0	Ū	— I
11141-16-5	Aroclor-1232 45	0	Ū	
53469-21-9	Aroclor-1242 45	0	Ū	
12672-29-6	Aroclor-1248 45		Ū	
11097-69-1	Aroclor-1254 89	0		
11096-82-5	Aroclor-1260 45		Ū	

### 1E PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H1BX4

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

SDG No.: H1BW5

Case No.: 33461 SAS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 041207-10

Sample wt/vol:

Lab Code: CEIMIC

30.3(g/mL) G

Lab File ID:

% Moisture: 16 Decanted: (Y/N) N

Date Received: 10/30/04

Extraction: (Type) SONC

Date Extracted: 11/02/04

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 11/09/04

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH: 8.7

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. (ug/L or ug/Kg) UG/KG Q COMPOUND

319-84-6	alpha-BHC	20	U	
319-85-7	beta-BHC	20	ַ <u>'</u>	<b>7</b>
319-86-8	delta-BHC	20	U	
58-89-9	gamma-BHC (Lindane)	20	Ū	_
76-44-8	Heptachlor	20	U	ا_
309-00-2	Aldrin	100	P	7
1024-57-3	Heptachlor epoxide	20	Ū	~  ·
959-98-8	Endosulfan I	20	Ū	_
60-57-1	Dieldrin	39	Ū	~
72-55-9	4,4'-DDE	39	Ū	-
72-20-8	Endrin	39	Ū	~
33213-65-9	Endosulfan II	39	Ū	-
72-54-8	4,4'-DDD	39	Ū	-
1031-07-8	Endosulfan sulfate	39	Ū	ر [ -
50-29-3	4,4'-DDT	160	P	-15
72-43-5	Methoxychlor	200	Ū	ر ا ً
53494-70-5	Endrin ketone	42	P	ーケ
7421-93-4	Endrin aldehyde	39	Ū	_
5103-71-9	alpha-Chlordane	20	Ū	ر ا־
5103-74-2	gamma-Chlordane	64	P	-15
8001-35-2	Toxaphene	2000	Ū	-
12674-11-2	Aroclor-1016	390	Ū	_
11104-28-2	Aroclor-1221	790	U	-
11141-16-5	Aroclor-1232	390	Ū	_
53469-21-9	Aroclor-1242	3400		_
12672-29-6	Aroclor-1248	390	Ū	_
11097-69-1	Aroclor-1254	1600	<u> </u>	_
11096-82-5	Aroclor-1260	390	U	-